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Volume Three

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GENERAL PUBLICATIONS

Southern Illinois University

Carbondale, 1961

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Southern Illinois University Bulletin



1960 • 1962

School of Fine Arts

Carbondale Campus

Vol. 3, No. 1

January, 1961

Objectives of Southern Illinois University

TO EXALT BEAUTY

IN GOD,
IN NATURE,
AND IN ART;
TEACHING HOW TO LOVE THE BEST
BUT TO KEEP THE HUMAN TOUCH;

TO ADVANCE LEARNING

IN ALL LINES OF TRUTH
WHEREVER THEY MAY LEAD,
SHOWING HOW TO THINK,
HOW NOT TO THINK,
ASSISTING THE POWERS
OF THE MIND
IN THEIR SELF-DEVELOPMENT;

TO FORWARD IDEAS AND IDEALS

IN OUR DEMOCRACY,
INSPIRING RESPECT FOR OTHERS
AS FOR OURSELVES,
EVER PROMOTING FREEDOM
WITH RESPONSIBILITY;

TO BECOME A CENTER OF ORDER AND LIGHT

THAT KNOWLEDGE MAY LEAD
TO UNDERSTANDING
AND UNDERSTANDING
TO WISDOM.

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School
of Fine Arts
Announcements for 1960-1962



SOUTHERN ILLINOIS UNIVERSITY BULLETIN
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The following issues of the *Southern Illinois University Bulletin*
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General Information
Summer Session
Schedule of Classes
Graduate School
College of Education
College of Liberal Arts and Sciences
School of Agriculture
School of Applied Science
School of Business
School of Communications
School of Fine Arts
School of Home Economics
University Institutes
Division of Technical and Adult Education

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Southern Illinois University
Carbondale, Illinois

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This Bulletin . . .

covers in detail questions concerning the School of Fine Arts. It does not cover all questions concerning Southern Illinois University. For complete information about the University the prospective student should refer to the General Information bulletin.

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University Calendar, 1961-1962

SUMMER SESSION*

Session Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Final Examinations	Wednesday–Thursday, August 9–10
Commencement	Friday, August 11

SUMMER QUARTER*

Quarter Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Quarter Ends	Friday, September 1

FALL QUARTER

New Student Week	Sunday–Tuesday, September 17–19
Quarter Begins	Wednesday, September 20
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 22–27
Final Examinations	Monday–Saturday, December 11–16

WINTER QUARTER

Quarter Begins	Tuesday, January 2
Final Examinations	Monday–Saturday, March 12–17

SPRING QUARTER

Quarter Begins	Monday, March 26
Memorial Day Holiday	Wednesday, May 30
Final Examinations	Wednesday–Tuesday, June 6–12
Commencement	Wednesday, June 13

Summer classes will begin on Tuesday, June 20. During the fall, winter, and spring quarters, day classes will begin on the second day of the quarter. Evening classes (5:45 P.M. or later) will begin on the first day of the quarter.

* Provision has been made for either an eight-week summer session or a regular summer quarter. The one to be followed will not be known until after the Illinois General Assembly acts on the University's budget during the 1961 legislative session.

University Calendar, 1962-1963

SUMMER SESSION*

Session Begins	Monday, June 18
Independence Day Holiday	Wednesday, July 4
Final Examinations	Wednesday–Thursday, August 8–9
Commencement	Friday, August 10

SUMMER QUARTER*

Quarter Begins	Monday, June 18
Independence Day Holiday	Wednesday, July 4
Quarter Ends	Friday, August 31

FALL QUARTER

New Student Week	Friday–Sunday, September 21–23
Quarter Begins	Monday, September 24
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 21–26
Final Examinations	Wednesday–Tuesday, December 12–18

WINTER QUARTER

Quarter Begins	Wednesday, January 2
Final Examinations	Wednesday–Tuesday, March 13–19

SPRING QUARTER

Quarter Begins	Wednesday, March 27
Memorial Day Holiday	Thursday, May 30
Final Examinations	Thursday–Wednesday, June 6–12
Commencement	Thursday, June 13

Summer classes will begin on Tuesday, June 19. During the fall, winter, and spring quarters, day classes will begin on the second day of the quarter. Evening classes (5:45 p.m. or later) will begin on the first day of the quarter.

* Provision has been made for either an eight-week summer session or a regular summer quarter. The one to be followed will not be known until after the Illinois General Assembly acts on the University's budget during the 1961 legislative session.



The University

SOUTHERN ILLINOIS UNIVERSITY was established in 1869 as Southern Illinois Normal University. The shortened name became official in 1947 by action of the state legislature.

For some years after its establishment, Southern operated as a two-year normal school. In 1907 it became a four-year, degree-granting institution, though continuing its two-year course until 1936. In 1943 the state legislature changed the institution, which had been in theory exclusively a teacher-training school, into a university, thereby taking official recognition of the great demand in the area for diversified training.

The Graduate School, approved in 1943, at first granted only the Master of Science in Education degree. In 1948 it was authorized to grant also the Master of Arts and Master of Science degrees. In 1952 the Master of Fine Arts degree was added to this list, and in 1955 the Doctor of Philosophy degree was added. The Master of Music and the Master of Music Education degrees were authorized in 1956.

In 1949 the Belleville Residence Center was established and the Alton and East St. Louis residence centers in 1957. In 1958 the Southwestern Illinois Residence Office was created to co-ordinate and direct the University's educational activities in the Madison-St. Clair counties area. In 1959 its name was changed to the Southwestern Illinois Campus.

LOCATION

The general administrative offices for the University's campuses at Carbondale, Southern Acres, and Little Grassy Lake are located at Carbondale. The Southwestern Illinois Campus, which is the administrative office for the Alton and the East St. Louis campuses, is located at Edwardsville.

The facilities at Carbondale now include more than twenty-five hundred acres of land, thirty-six permanent buildings, and numerous temporary buildings. These buildings house classrooms, auditoriums, laboratories, libraries, offices, living quarters, cafeterias, and farm equipment and animals. The Little Grassy Lake and Southern Acres campuses are each about ten miles from Carbondale.

The facilities of the former Shurtleff College have been leased by the University for the operation of the Alton campus. The East St. Louis campus is located at the former East St. Louis High School building.

SESSIONS

The academic year is divided into three quarters. Each quarter is approximately twelve weeks in length.

The fall quarter opens near the middle of September and closes just prior to the Christmas vacation period. The winter quarter begins early in January and ends about the middle of March. The spring quarter begins the latter part of March and ends about the second week in June. Definite dates for each quarter may be found in the University Calendar.

In addition to the three quarters, there is an eight-week summer session which begins immediately following the close of the spring quarter. The summer session consists of a comprehensive program of courses offered by the departments of the University. In addition to the courses which run the full eight weeks, there are workshops and short courses covering shorter periods of time.

REGULATIONS

The University and its various instructional units reserve the right to change the rules regulating admission, instruction, and graduation; to change courses and fees; and to change any other regulation affecting the student body. Such regulations shall go into force whenever the proper authorities so determine, and shall apply both to prospective students and to those who have enrolled in the University.

Each student must assume responsibility for his progress by keeping an up-to-date record of the courses he has taken and by checking periodically with his adviser and the Registrar's Office. Responsibility for errors in program or in interpretation of regulations of the University rests entirely upon the student. Advice is always available on request.

School of Fine Arts

THE SCHOOL OF FINE ARTS was created in July, 1955, to serve as the instrument of the University for the direction of training and the stimulation of creative and professional work in the fine arts, and to provide service courses and activities for the other colleges, divisions, schools, and departments of the University.

At that time the School of Fine Arts included the Departments of Art and Music. In 1956 a Department of Design was created.

In the winter of 1959-60, University Galleries were approved by the administration and the Board of Trustees as a part of the School of Fine Arts. The objectives, use, and facilities of the University Galleries will be discussed subsequently. Those interested in a copy of the University Galleries Brochure address the dean, School of Fine Arts, Southern Illinois University, Carbondale, Illinois.

OBJECTIVES

The objectives of the School of Fine Arts are (1) to broaden and intensify experiences in the fine arts in the area served by the University and by this means to impart an understanding of the fine arts as a vital part of general education; (2) to provide all students of the University with experiences in the arts and to impart an awareness of their value through both practice and appreciation; (3) to prepare specialists for professional careers in the fine arts.

The School of Fine Arts will make every reasonable effort to care for the needs of students other than art, design, and music majors who want an experience in the fine arts for either cultural or practical reasons.

An important aspect of the educational programs offered in the School of Fine Arts is the emphasis put on the development of the individual student in the applied courses offered.

FACILITIES

The Department of Art is located in the Allyn Building. The building contains specially equipped studios for work in drawing, painting, prints, pottery, metal, and weaving. When classes are not in session, studios are open for use throughout the day and evening.

The Allyn Gallery, one of the University Galleries, is located on the main floor of Allyn Building. Lecture rooms, offices, the studios, and the slide collection center have convenient access to the gallery.

The Mr. and Mrs. John Russell Mitchell Gallery, now in process of construction, will house valuable recent acquisitions as well as important traveling collections.

The collection of photographic slides of significant works of art from every culture and period provides an important tool of instruction. The department's slide collection is complemented by a collection of reproductions in Morris Library available to the individual student for study.

The Department of Design and the design-research-development program are presently housed in remodeled barracks and a group of geodesic domes designed by Mr. R. Buckminster Fuller. This space includes workshops for product-shelter classes and studios and lecture rooms for visual design classes and for the basic design courses.

The Department of Music is housed in historic Altgeld Hall, remodeled in 1958 to provide air-conditioned classrooms, studios, practice rooms, offices, and a service center. Shryock Auditorium, immediately adjacent to Altgeld Hall, is the home of the university bands and orchestra. Practice rooms are available to all music majors at no extra charge.

The Department of Music is staffed by a faculty of outstanding artist-teachers, all of whom have had experience in concert or opera and are active in composition and performance. The student can expect to receive excellent training in all the applied and theoretical branches of music.

A large collection of phonograph records and teaching aids is available to students and faculty in the Department of Music service center in Altgeld Hall. Morris Library contains an excellent and rapidly growing collection of music, scores, books on music, and research tools of the greatest possible advantage to the student wishing to pursue his studies in the history and literature of music, music theory, and musicology. Among the important holdings are the complete works of Bach, Beethoven, Brahms, Buxtehude, Couperin, Frescobaldi, Handel, Haydn, Mozart, Palestrina, Purcell, Schütz, and others. Also the library possesses such valuable refer-

ence works as the *Denkmäler der deutscher Tonkunst*, *Denkmäler der Tonkunst in Österreich*, *Istituzione e monumenti dell 'Arte Musicale italiana*, *Musica Britannica*, *Maitres musiciens de la musique francaise*, the *English School of Lutenist Songwriters*, *Monumentos de la musica espanol*, all publications of the American Institute of Musicology, and the micro-card publications of the Eastman Sibley Library. The reading room contains also all of the leading American and many of the foremost European musical journals, and maintains a fine circulating collection of recordings and well-equipped listening rooms.

STUDENT ORGANIZATIONS

Students in the Department of Music are eligible for membership in Mu Phi Epsilon, national honorary sorority, or Phi Mu Alpha Sinfonia, national honorary fraternity, as well as the student chapter of Music Education National Conference. The campus chapters of these organizations hold regular meetings and have offices assigned them in the Department of Music.

CONCERTS AND RECITALS

Southern Illinois University each year offers a variety of cultural events for the enjoyment of students, faculty, and residents of the Carbondale area. Approximately one hundred recitals and concerts are presented during the academic year, including programs sponsored by the Carbondale Community Concert Association as well as the series of concerts by faculty and graduate students each Sunday at 4 P.M. Performances of solo and ensemble music and concerts of original compositions by members of the faculty provide a rich musical experience for those who attend. Admission to these programs is free. In addition such artists and groups as the following have appeared during the past several seasons: Eileen Farrell, Pierette Alarie, and Maureen Forrester, singers; Eugene Istomin, Rudolf Firkusny, Grant Johannesen, and Johana Harris, pianists; the St. Louis, Minneapolis, and New Orleans Symphony Orchestras; Carl Weinrich, and Virgil Fox, organists; William Kroll, violinist; the Oxford String Quartet and the Eastman String Quartet; the Merce Cunningham Dance Group, the Joffrey Theater Ballet; the Obernkirchern Children's Choir; Roy Harris, Ingolf Dahl, composers; and Mlle Nadia Boulanger, composer, conductor, and musicologist.

CHORAL ORGANIZATIONS

University Choir, an organization of approximately 75 voices, affords opportunity to sing some of the world's great choral works. Admission to the group is by audition with the director, and is open to all students of the University.

Madrigal Singers, a small group of 16 voices, is drawn from the University Choir upon a selective basis.

The Southern Belles (a woman's group) and the Tour Choir members are also chosen from the University Choir membership.

Membership in the Southern Illinois Oratorio Chorus is open to all interested adults in the area as well as to students. Oratorios and choral works by such great masters as Bach, Handel, Mendelssohn are presented each year with accompaniment by the University Symphony Orchestra.

Opera Workshop, for those interested in musical-dramatic performance, presents a number of excerpts from major operas each year as well as one complete opera. In these performances the departments of Music, Speech, and Theater co-operate. In recent seasons *LaBohème* by Puccini, *Die Fledermaus*, by Strauss, and, during the summer, *South Pacific* and *The Most Happy Fella* have been presented. Participation in this group is open to all interested students as well as to those in music and dramatic arts.

UNIVERSITY BANDS AND ORCHESTRA

Membership in the University Bands is open to all students of the University. The Concert Band provides an opportunity to become acquainted with the best in band music and also an excellent training for prospective band directors. It has received widespread recognition for its promotion of the modern band repertoire. The Varsity Band, in addition to providing music for a variety of intercollegiate events, prepares several concerts for campus audiences each year. The two bands combined annually present a series of outdoor programs for the benefit of students and the community. In co-operation with the Air Force Reserve Officers Training Corps, freshman and sophomore men may participate in the men's chorus (the Singing Squadron) and the AF ROTC Band. Members of the AF ROTC Band are automatically included in the roster of the University Bands and participate in their combined activities.

Two orchestras of symphonic proportions form the basis for intensive

training in orchestral performance. The Southern Illinois Symphony Orchestra is an eighty-five-piece organization whose membership includes adult musicians from the area as well as students.

The University Symphony Orchestra presents a series of on-campus concerts plus several programs on short tours of the area. It also serves as the accompanying group for the opera and oratorio productions.

A Southern Illinois Youth Orchestra, organized in January 1958, meets weekly and is composed of selected elementary and high school instrumentalists. This orchestra is available for use as a laboratory organization by students in the Department of Music.

SMALL ENSEMBLES

The chamber music program, calling for performances by string, woodwind, brass, and percussion ensembles, is an important feature in the department's program. Participation in these ensembles is considered extremely important by the department because it provides the student with first-hand acquaintance with much of the important literature for his chosen instrument.

EXHIBITIONS

A program of art exhibitions is presented in the University Galleries with intention of providing the highest quality of contemporary and historical works for enjoyment and study. Exhibitions are secured from the Museum of Modern Art, the Federation of Arts, the Smithsonian Institute, and from important galleries and collections in New York, Chicago, and St. Louis. The aim is to vary the shows to give the students and public an opportunity to see some of the best examples of the crafts, as well as painting, sculpture, and prints.

The 1960-1961 season will mark the beginning of an intensified exhibition program with the opening of the Mr. and Mrs. John Russell Mitchell Gallery. The University Galleries' permanent collection of contemporary drawings and paintings is being steadily enlarged.

FESTIVAL OF FINE ARTS

Each year, during the spring quarter, the University sponsors a Festival of Fine Arts in which visiting performers, lecturers in the various

aspects of the fine arts, exhibits of important art collections, and programs by student, faculty, and guest artists are presented as part of an integrated festival. For a copy of the annual Fine Arts Festival brochure, address the Dean, School of Fine Arts.

ADMISSION TO THE SCHOOL

Inquiries concerning admission to the School of Fine Arts should be addressed to the University's Admissions Office. Application for admission may be made any time during the year. Applications should be initiated at least thirty days in advance of the desired entrance date to permit necessary processing work to be completed. High school seniors should apply at the beginning of the last semester of their senior year.

COMPLETE DETAILS concerning admission, tuition, fees, housing, financial assistance, and student employment are given in the General Information bulletin. For a free copy write to General Publications, Southern Illinois University, Carbondale, Illinois.

TUITION AND FEES

At the present time legal residents of Illinois registered for more than eight hours pay a total of \$61.50 per quarter. This includes \$42.00 tuition, a \$5.00 book rental fee, a \$5.00 student union building fund fee, and a \$9.50 student activity fee. Out-of-state students pay an additional \$50.00 tuition, or a total of \$111.50. Students registered for eight hours or fewer pay one-half tuition, one-half book rental fee, full student union building fund fee; they have the option of paying the student activity fee.

ADVISEMENT

To insure that an undergraduate student is properly advised concerning the course of study which will fulfill the general University requirements and prepare him for his chosen career, academic advisement has been made the special responsibility of a selected group from the teaching faculty. The School of Fine Arts has a chief academic adviser and a number of assistant advisers.

REQUIREMENTS FOR THE BACHELOR'S DEGREE

Each candidate for the degree must complete a minimum of 192 hours of credit in approved courses. At least 64 must be in senior college courses, of which 48 must be earned at Southern, 16 of which may be earned in extension from Southern. Each student must have a "C" average, and grades not lower than "C" in subjects aggregating at least three-fourths of the work. A "C" average is required in the major subject. These averages are required for the credit made at Southern as well as for the total record.

The *quarter hour* is the unit of credit used at Southern and throughout this bulletin. One quarter hour is two-thirds of a semester hour.

Except for Bachelor of Music Education and Bachelor of Music degree students, the following requirements should be met by all bachelor's degree candidates of the University within the first two years of attendance.

REQUIREMENTS	HOURS	COURSES
Social Studies	20	Economics 205, Geography 100, Government 101, History 101, 102, 103, Sociology 101 (work in four of the five departments)
Humanities	18	
English	(9)	English 101, 102, 103
English	(6)	English 205, 206, 209, 211, 212
Art or Music	(3)	Art 120, Music 100
Biological Sciences	9	
Health Education	(4)	Health Education 100
Botany or Zoology	(5)	Botany 101, 202, Zoology 100
Mathematics and Physical Sciences	12	Chemistry, physics, and mathematics (work in two of the three departments)
Practical Arts and Crafts	3	Agriculture, business administration, home economics, industrial education (not required if the student has had any of this work in high school)
Physical Education	6	Activity courses
Air Science (Men only)	3	Air Science 110, 210, 220, six quarters of leadership laboratory, and three elective courses must be satisfactorily completed before this requirement is fulfilled.
TOTAL	71	

BACHELOR OF MUSIC EDUCATION DEGREE

Bachelor of Music Education degree candidates must meet all of the above requirements except the taking of Art 120 or Music 100.

BACHELOR OF MUSIC DEGREE

Bachelor of Music degree candidates should meet the following general degree requirements within the first two years of attendance.

REQUIREMENTS	HOURS	COURSES
Social Studies	15	Economics 205, Geography 100, Government 101, History 101, 102, 103, Sociology 101 (work in three of the five departments)
Humanities	18	
English	(9)	English 101, 102, 103
Foreign Language	(9)	One year of a foreign language
Biological Sciences	4	Health Education 100
Physical Sciences	4	Physics 101
Physical Education	6	Activity courses
Air Science (Men only)	3	Air Science 110, 210, 220, six quarters of leadership laboratory, and three elective courses must be satisfactorily completed before this requirement is fulfilled.
TOTAL	50	

Instructional Units

ART

Professor Warren Brandt, M.F.A. (University of North Carolina), Chairman	1959
Professor Burnett H. Shryock, M.A. (Columbia)	1935-44; 1950
Associate Professor Bruce J. Breland, M.F.A. (Cranbrook Academy of Art)	1959
Associate Professor Harvey S. Harris, M.F.A. (Yale)	1960
Associate Professor Lula D. Roach, M.A. (Washington University) Emerita	1930
Assistant Professor Warren Sanderson, M.A. (Boston)	1960
Assistant Professor Alice Schwartz, M.F.A. (Kansas)	1960
Assistant Professor Milton F. Sullivan, M.A. (Columbia)	1952
Assistant Professor Nicholas Vergette, A.T.D. (London University)	1959
Assistant Professor Benjamin P. Watkins, M.A. (Louisiana State University)	1946
Matilda F. Salter, Emerita (1917)	1885
<hr/>	
Lecturer Richard Moldroski, M.A. (Michigan State University)	1959-61
Lecturer Albert J. Newbill	1960-61
Lecturer Martin S. Werner, M.A. (New York)	1960-61
Research Assistant Denise Zaslowski, Bachelor Diploma (Immaculate Conception, Poland)	1959-61

To augment the regular academic program and enrich the experiences for the student of art, the Department of Art brings to the campus as distinguished visiting professors such artists as Herman Cherry, painter, Sidney Geist, sculptor, John Grillo, painter, and Edward Millman, painter.

A series of panels and lectures, often combining visiting speakers and members of the regular faculty, is given each year. These individuals join the faculty and students for a series of workshops, seminars, and private criticisms and offer public lectures and demonstrations. Paul Burlin, Edward Dugmore, and Milton Resnick were visiting lecturers during the 1959-60 academic year.

The Department of Art offers curricula leading to the following bachelor's degrees:

1. Bachelor of Arts, for students in the School of Fine Arts. Major in art with specializations in painting, prints, sculpture, crafts, art history, and art education.
2. Bachelor of Arts, for students in the College of Liberal Arts and Sciences. Major in art, specialization in art history.
3. Bachelor of Science in Education, for students in the College of Education. Major in art, specialization in art education.

The Department of Art is now considering a Bachelor of Fine Arts degree program in addition to the above degree programs.

Undergraduate offerings of the Department of Art provide both introductory and specialized experiences. Students are encouraged to select their area of specialization by the end of the sophomore year. All art majors in the School of Fine Arts are required to complete a minimum of twenty-four hours of work in art history. Curricula are also planned for those desiring a minor in art.

The department reserves the right to withhold an example of the work of each student in each class. Such works become a part of a permanent collection from which exhibitions may be prepared.

SUGGESTED CURRICULA IN THE SCHOOL OF FINE ARTS

The Department of Art offers curricula leading to the Bachelor of Arts degree with a major in art and specializations in painting, prints, sculpture, crafts, art education, and art history.

STUDIO PROGRAMS (PAINTING, PRINTS, SCULPTURE)

<i>General Degree Requirements</i> (See page 9.)	71
<i>Required Courses for Specialization in Painting, Prints, or Sculpture</i>	110
Art 100, 200	30
Studio; drawing 241-4, 242-4, 243-4, electives	20
Studio; additional courses listed below *	28
Art History; 225, 226, 227, 345, 444, electives	24

Crafts; electives	8	
	<u>110</u>	
* Additional studio courses for specialization in painting		
Painting; 320, 401, 406	20	
Prints; 358	8	
* Additional studio courses for specialization in prints		
Prints; 358, 410, 416	16	
Painting; 320, 401	12	
* Additional studio courses for specialization in sculpture		
Sculpture; 393	20	
Painting; 320	8	
<i>Electives</i>		11
<i>Total</i>		<u>192</u>

CRAFTS PROGRAMS

<i>General Degree Requirements</i> (See page 9.)		71
<i>Required Courses for Specialization in Crafts</i>		110
Art 100, 200	30	
Studio; electives	12	
Art History; 225, 226, 227, 345, 444, electives	24	
Crafts; one of the three concentrations below *	44	
	<u>110</u>	
* Crafts courses for concentration in jewelry and metalsmithing		
Jewelry and metalsmithing; 231, 332-12,		
436-12	28	
Pottery; 302	8	
Weaving; 385	8	
* Crafts courses for concentration in pottery and ceramics		
Jewelry and metalsmithing; electives		
or Weaving; 385	12	
Pottery; 203-12, 302-12, 426-8	32	
* Crafts courses for concentration in weaving		
Jewelry and metalsmithing; 332-8		
(Prerequisite: 231-4)	8	
Pottery; 203	12	
Weaving; 385-12, 440-12	24	
<i>Electives</i>		11
<i>Total</i>		<u>192</u>

ART EDUCATION PROGRAM

<i>General Degree Requirements</i> (See page 9.)	71
<i>College of Education Requirements</i> (See Education bulletin.)	26
<i>Required Art Courses for Specialization in Art Education</i>	82
Art 100, 200	30
Studio; electives	16
Art History; 225, 226, 227, 345, 444	15
Crafts; 203, 231, 385	12
Art Education; 306, 307, 308	9
	<hr/> 82
<i>Related Requirements for the Major</i>	6
Design; 250, 260, 390	6
<i>Electives</i>	7
<i>Total</i>	<hr/> 192

ART HISTORY PROGRAM

Students interested in a major in art with a specialization in art history should consult the department chairman for curriculum planning.

ART CURRICULUM IN THE COLLEGE OF LIBERAL ARTS AND SCIENCES

The Department of Art offers a curriculum leading to the Bachelor of Science degree with a major in art and a specialization in art history. It is recommended that the major be accompanied by a minor in history.

Required courses are Art 225, 226, 227. The other courses to complete the major will be arranged after consultation with the student's major professor. See also the College of Liberal Arts and Sciences bulletin.

ART CURRICULUM IN THE COLLEGE OF EDUCATION

The Department of Art offers a curriculum leading to the Bachelor of Science in Education degree with a major in art and specialization in art education.

Courses required for the major for a student in a secondary-certificate program are Art (studio and crafts) 100-15, 200-15, 203, 321-4, 385-4, 4 hours of additional studio courses numbered above 300; (art education) 306, 307, 308; (art history) 225, 226, 227, 444; Design 250, 260, 390.

Courses required for the major for a student in a special-certificate program are the same as those for a student in a secondary-certificate program, except that Design 390 and 4 hours of additional studio courses may be replaced by 6 hours of electives in art.

For education courses and for the total hours required for the Bachelor of Science in Education degree, please refer to the College of Education bulletin.

GRADUATE DEGREES

The Department of Art offers courses leading to the Master of Fine Arts degree, Master of Arts degree, Master of Science degree, and the Master of Science in Education degree. For additional information concerning the graduate program refer to the Graduate School bulletin.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level may be taken by undergraduate and graduate students. Those on the 500 level are for graduate students only.

Courses are listed numerically in 3 categories: (1) studio and crafts, (2) art education, and (3) art history and art appreciation.

STUDIO AND CRAFTS COURSES

100-5 to 15. **BASIC STUDIO.** Three-quarter sequence. A studio course in visual fundamentals emphasizing the ways in which art may be structured. Studio experience in two- and three-dimensional materials. Required of all art majors.

200-5 to 15. **STUDIO DISCIPLINES.** Three-quarter sequence. Disciplines in drawing, painting, and sculpture. Required of all studio art majors and for art majors in the College of Education.

203-2 to 12. **BEGINNING CERAMICS.** Throwing forms on the potter's wheel, hand building and press molding processes. Study of clay, glazes, and firing procedures.

231-4. **JEWELRY.** Introductory course. Study of basic techniques used in construction of jewelry with emphasis on a personal and original design experience.

241-2 to 4, 242-2 to 4, 243-2 to 4. **DRAWING.** Fundamental principles of figure and object drawing involving the explanatory use of a variety of materials. Prerequisite: 100-15 for art majors; consent of instructor for non-majors.

245-2 to 12. **THE FIGURE.** Three-quarter sequence. A study of the human figure in terms of form, movement, and structure accompanied by an exploration of possibilities of various drawing media.

250-2 to 12. **OIL PAINTING.** Three-quarter sequence. Introductory study of oil

- painting as a medium of expression. Individual rather than group problems planned and worked upon. Open to non-majors.
- 302-2 to 12. BEGINNING AND ADVANCED CERAMICS. Three-quarter sequence. Similar to 203 with higher level of achievement expected. Advanced subject matter adjusted with reference to number of hours of credit in ceramics previously earned.
- 320-2 to 12. ADVANCED PAINTING. Three-quarter sequence. Prerequisite: 250 (8 hours) and major in art.
- 323-4. THE FIGURE (ADVANCED). Course for majors providing opportunity for concentrated work from the figure.
- 325-2 to 15. STUDIO. Advanced research problems. Approval of chairman of department required for selection of project and instructor.
- 332-2 to 12. JEWELRY AND SILVERSMITHING. Three-quarter sequence. Basic processes in jewelry and metalwork. Emphasis upon design experience and high critical standard. Prerequisite: 231.
- 358-2 to 12. PRINTS. Three-quarter sequence. Introduction to printmaking as a medium. Studio projects in intaglio and relief processes.
- 385-2 to 12. WEAVING. Three-quarter sequence. Development of understanding of two and four harness loom and essential processes in weaving simple and pattern textiles.
- 393-4 to 12. SCULPTURE. Problems in modeling, carving, casting, and construction. Prerequisite: 200-15.
- 401-2 to 12. RESEARCH IN PAINTING.
- 406-2 to 12. STUDIO IN PAINTING.
- 410-2 to 12. RESEARCH IN PRINTS.
- 416-2 to 12. STUDIO IN PRINTS.
- 420-2 to 12. RESEARCH IN POTTERY.
- 426-2 to 12. STUDIO IN POTTERY.
- 430-2 to 12. RESEARCH IN METAL CONSTRUCTION.
- 436-2 to 12. STUDIO IN METAL CONSTRUCTION.
- 440-2 to 12. RESEARCH IN WEAVING.
- 446-2 to 12. STUDIO IN WEAVING.



493-4 to 12. ADVANCED SCULPTURE.

Courses on the 500 level are for graduate students only.

501-2 to 12. SEMINAR IN PAINTING.

506-2 to 12. RESEARCH IN PAINTING.

511-2 to 12. SEMINAR IN PRINTS.

516-2 to 12. RESEARCH IN PRINTS.

520-2 to 12. SEMINAR IN POTTERY.

526-2 to 12. RESEARCH IN POTTERY.

530-2 to 12. SEMINAR IN METAL CONSTRUCTION.

536-2 to 12. RESEARCH IN METAL CONSTRUCTION.

540-2 to 12. SEMINAR IN WEAVING.

546-2 to 12. RESEARCH IN WEAVING.

599-5 to 9. THESIS.

ART EDUCATION COURSES

300-2 to 12. ART EDUCATION. Theory and practice of art activities in the elementary schools. Designed to meet needs of elementary education majors.

306-3. MATERIALS AND TECHNIQUES IN ART EDUCATION. Studio course providing a broad experimental experience with materials and techniques adaptable to art classes in grade and high school. In addition to studio assignments, each student is required to complete a working file of published material and notes on materials and techniques in art.

307-3. THEORY IN ART EDUCATION. Survey of art education theory providing the art education major with an introduction to theoretical studies in his field, and through scheduled observation visits to art classes at the University School, with the problems of relating theory to practice.

308-3. CURRICULUM AND ADMINISTRATION IN ART EDUCATION. Course providing art education majors with experience in dealing with problems of planning, organizing, introducing, and administering art curricula in grade and high school. Includes comparative study of published material and preparation of a working file on the subject.

365-4. ART EDUCATION IN THE SECONDARY SCHOOLS. For art education majors preparing to teach on secondary level; includes studio projects designed to develop awareness of technical and aesthetic needs of high school students, reading and discussion of literature, planning of curriculum.

460-2 to 12. RESEARCH IN ART EDUCATION.

466-2 to 12. STUDIO IN ART EDUCATION.

Courses on the 500 level are for graduate students only.

560-2 to 12. SEMINAR IN ART EDUCATION.

566-2 to 12. RESEARCH IN ART EDUCATION.

ART HISTORY AND ART APPRECIATION

The Art Appreciation course provides experience from which the non-major may develop a mature understanding and response to the visual arts.

The art history curriculum is designed to provide the art major with a basic introduction to the history of his professional field and to provide undergraduate preparation for those who wish to do graduate work in this area and prepare

themselves for museum or university positions. Non-majors may register for these courses with the approval of the instructor.

120-3. ART APPRECIATION. Introductory course relating art to daily experience. Satisfies general University requirement.

225-3, 226-3, 227-3. HISTORY OF WORLD ART. (SURVEY I, II, III.) A study of painting, sculpture, and architecture from prehistoric to modern times. Emphasis is placed upon the major periods and great styles in relation to their geographical and social backgrounds. Required of art majors; to be begun and completed as a sequence during the sophomore year. Open to all university students during the junior or senior year, with permission of the Department of Art. First quarter: The art and architecture of ancient and classical man. Second quarter: Art of the medieval epoch. Third quarter: From the Renaissance to the present.

301-3. MANNERIST, BAROQUE, AND ROCOCO ART. A study of European art from the end of the High Renaissance until the late eighteenth century. Emphasis is placed upon the works of such masters as Tintoretto, El Greco, Bernini, Poussin, Rubens, Rembrandt, Watteau, Chardin, Fragonard.

309-3. ORIENTAL ART. A survey of major styles and examples of the arts of the Far East from prehistoric times in China to nineteenth-century Japanese prints.

345-3. ART OF THE NINETEENTH CENTURY. The meaning and varieties of art from the time of the French Revolution until late Impressionist art of the nineteenth century. Relations to the social environment are interpreted.

347-3. ART OF THE ANCIENT WORLD. An interpretation of painting, sculpture, and architecture from prehistoric times through the ancient Egyptian, Mesopotamian, Greek, and Roman civilizations, presented with consideration of the general cultural settings of the peoples involved.

348-3. MEDIEVAL ART. The formation and development of religious art in Europe from the early Christian period through the Gothic. Relationships between Middle Ages society and art are studied.

349-3 to 9. RENAISSANCE AND BAROQUE ART. Three-quarter sequence of lectures in European art and architecture from the late 14th century to the mid-18th century. Each quarter is independent in content but the course will be treated in chronological sequence with 349a offered in the fall, 349b in the winter, and 349c in the spring. Prerequisite: 227.

350A-3, 350B-3, 350C-3. LECTURES IN AMERICAN ART. A survey of American painting, sculpture, and architecture from the early 18th century to the present. Prerequisite: 120, 227, or consent of instructor.

356-3. THEORY OF ART. Survey of literature in theory of art and its influence and relationship to art criticism and practical work.

369-3. PRIMITIVE ART. A study of the arts of "primitive" peoples of Africa, the Pacific, and the Americas. Characteristic works are interpreted in context with the general conditions of primitive society. The significant influences of primitive art on modern painting and sculpture are considered.

380-4. THEORY AND APPRECIATION OF ART. Introductory course for senior college students. Offered only in extension. Satisfies general University requirement.

- 444-3. ART OF THE TWENTIETH CENTURY. The principal movements and styles of twentieth-century art are studied and evaluated with special emphasis upon change in modern society.
- 449-3. RENAISSANCE ART. An understanding and appreciation of fifteenth- and sixteenth-century European art is aimed at with consideration of the significance of Renaissance art to the growth of Humanism.
- 471-3. BAROQUE PAINTING IN ITALY. A study of major developments in style and expression in Italian painting from the late Mannerist period until the early eighteenth century.
- 473-3. ROMANTIC ART OF THE 19th CENTURY. A study of the sources and characteristics of Romantic Art approached through the works of such masters as Gros, Delecroix, Blake, Friedrich, Goya, and certain Americans.
- 475-3. IMPRESSIONIST AND POST-IMPRESSIONIST PAINTING. The late nineteenth century in France: Impressionism, Neo-Impressionism, Poin-tillism, and early Expressionism. The styles of Manet, Monet, Degas, Renoir, Seurat, Van Gogh, and Cezanne receive emphasis.
- 482A-3, 482B-3, 482C-3. ART HISTORY SEMINAR. Lectures, readings, and reports on artists, styles, subjects of special interest which will be an-nounced periodically by the Department of Art.
- 483-3 to 12. RESEARCH IN ART HISTORY.

Courses on the 500 level are for graduate students only.

- 571-2 to 5. READINGS IN ART HISTORY.
- 573-3 to 12. PROBLEMS IN ART HISTORY.
- 599-5 to 9. THESIS.

DESIGN

Research Professor R. Buckminster Fuller	1959
Associate Professor Harold L. Cohen, B.A. (Illinois Institute of Technology), Chairman	1955
Instructor Robert Hunter, B.A. (Southern Illinois)	1959
Lecturer-Instructor Davis J. Pratt	1957
Lecturer-Instructor Herbert Roan	1957
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Lecturer Elsa Kula Pratt	1957-61
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Assistant Professor John F. H. Lonergan, B.A. (Illinois)	1950
Assistant Professor Charles M. Pulley, B.S. (Illinois)	1951
Instructor Carl E. Bretscher, B.S. (Illinois)	1957

Each year a number of the country's leading designers are brought to the campus for lectures and seminars.

The educational efforts of the Department of Design are directed toward fulfillment of men's needs in an industrial-based society, by developing the designers who will be responsible for creating the contemporary environment.

Developing the designer, with the background and orientation to perform effectively in this capacity, has been the aim of advanced design education since the birth of the design profession at the Bauhaus in pre-Hitler Germany. L. Moholy-Nagy stated with reference to design in general, "Design is not a profession but an attitude." He was referring to the importance of sound conceptual thinking as the basis for creative activity in the design field.

SUGGESTED CURRICULUM IN DESIGN

This curriculum leads to the Bachelor of Arts degree with a major in design.

<i>General Degree Requirements</i> (See page 9.)	71
<i>Required Design Courses for the Major</i>	119
Design 100-15, 215-12, 275-12	39
Design 200-6, 300-6, 400-6	18
Design 366-15, 375-15, 390-2, 465F-15, 465G-15	62
	<hr/> 119
<i>Related Requirements for the Major</i>	55-56
Art history	9
Art electives	8
Music appreciation	3
Industrial Education 101	4
Mathematics 111, 112, 113, or equivalent	14-15
Psychology and/or philosophy and/or anthropology (courses selected after consultation with the department chairman)	14
Semantics or literature	3
	<hr/> 55-56
<i>Electives</i>	0
<i>Total</i>	<hr/> 245-246

NOTE: All students transferring from other departments and other schools will be placed at the proper curricular stage after a personal interview and the showing of examples of their previous work.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level may be taken by undergraduate and graduate students. Those on the 500 level are for graduate students only.

100-5 to 15. DESIGN FUNDAMENTALS. Three-quarter sequence. Comprehensive workshop and lecture course in design fundamentals. Exploration of two- and three-dimensional design principles using various media and materials.

200-2 to 6. MATERIALS AND BASIC TECHNIQUES. Three-quarter sequence. Exploration of materials both two- and three-dimensional. Elements within prescribed picture plane, including light as a creative medium. Construction in various materials of differing properties employing basic techniques and hand and power tools. Prerequisite: 100 (15 hours).

215-4 to 12. BASIC PRODUCT-SHELTER DESIGN. Three-quarter sequence. Development of an analytical approach to the solutions of product and shelter problems, using lecture, text, and laboratory methods. Prerequisite: 100 (15 hours).

250-2. SURVEY OF PRODUCT-SHELTER DESIGN. Presents basic material offered in 215 but adapted to interests of those not majoring in design. One hour lecture and two hours laboratory.

260-2. SURVEY OF VISUAL DESIGN. Presents basic material offered in 275 but adapted to interests of those not majoring in design. One hour lecture and two hours laboratory.

275-4 to 12. BASIC VISUAL DESIGN. Three-quarter sequence. Development of an analytical approach to the solution of visual problems, using lecture, text, and laboratory methods. Prerequisite: 100 (15 hours).

300-2 to 6. MATERIALS AND BASIC TECHNIQUES. Three-quarter sequence. A continuation of 200. Prerequisite: 200 (6 hours).

345-4 to 12. DESIGN STUDIO. Three-quarter sequence. Deals with all forms

*Mr. Fuller's home,
a prefabricated geodesic
dome, was constructed in
Carbondale during 1960.*



- of experimental structures, including two and three dimensional. (R. Buckminster Fuller's dymaxion theories).
- 366-5 to 15. **PRODUCT-SHELTER DESIGN.** Three-quarter sequence. Advanced study of design problems dealing with personal and family needs. An introduction to tools, jigs, and fixtures, materials applicable to problems of mass fabrication. Nomenclature; field trips; industrial communication. Prerequisites: 200 (6 hours), 215 (12 hours), 275 (12 hours).
- 375-5 to 15. **VISUAL DESIGN.** Three-quarter sequence. Advanced study of design problems of hand-to-eye scale communication, i.e., cards, brochures, booklets, packaging, and general advertising. Full nomenclature of the field, and introduction to the graphics industry. Prerequisites: 200 (6 hours), 215 (12 hours), 275 (12 hours).
- 390-2. **PRINCIPLES OF DESIGN.** Comparative studies of European and Asiatic influences on contemporary American approaches to design education and practice. Readings from Sullivan, Wright, Le Corbusier, Moholy-Nagy, Kepes, and others.
- 400-2 to 6. **MATERIALS AND BASIC TECHNIQUES.** Three-quarter sequence. A continuation of 300. Prerequisite: 300 (6 hours).
- 465F-5 to 15. **RESEARCH IN PRODUCT-SHELTER DESIGN.** Three-quarter sequence. Problems dealing with large groups; all problems carried from conception to actual full-scale construction. Development of prototype for mass-production techniques. Small research projects developed under grants given to the department. Prerequisite: 366 (15 hours).
- 465G-5 to 15. **RESEARCH IN VISUAL DESIGN.** Three-quarter sequence. Problems dealing with room-to-eye scale and larger; i.e., posters, car cards, strip film, film, exhibition, etc. Advanced graphic and photo technology, development of prototype for mass-production techniques. Small research projects developed under grants given to the department. Prerequisite: 375 (15 hours).
- 490F-2 to 12. **STUDIO IN PRODUCT-SHELTER DESIGN.** Special seminars developed with adjunct and visiting professors. Prerequisite: 345 (8 hours), 366 (15 hours).
- 490G-2 to 12. **STUDIO IN VISUAL DESIGN.** Special seminars developed with adjunct and visiting professors. Prerequisite: 345 (8 hours), 375 (15 hours).

Courses on the 500 level are for graduate students only.

- 500F-2 to 12. **SEMINAR IN PRODUCT-SHELTER DESIGN.** The development of one problem given individually in preparation for the student's thesis. Prerequisite: 465F (8 hours).
- 500G-2 to 12. **SEMINAR IN VISUAL DESIGN.** The development of one problem given individually in preparation for the student's thesis. Prerequisite: 465G (8 hours).
- 510F-2 to 12. **RESEARCH IN PRODUCT-SHELTER DESIGN.** The development of research projects with direct supervision by the staff. Prerequisite: 465F (8 hours).
- 510G-2 to 12. **RESEARCH IN VISUAL DESIGN.** The development of research projects with direct supervision by the staff. Prerequisite: 465G (8 hours).
- 599-2 to 9. **THESIS.**

MUSIC

Research Professor Marjorie Lawrence	1960
Professor Steven Barwick, Ph.D. (Harvard)	1955
Professor Fred H. Denker, Ph.D. (Eastman), Acting Chairman	1953-54; 1957
Associate Professor Carol MacClintock, Ph.D. (Indiana)	1959
Associate Professor David S. McIntosh, M.A. (Iowa)	1927
Associate Professor Wesley Morgan, Ph.D. (Southern California)	1959
Associate Professor Robert E. Mueller, Ph.D. (Indiana)	1948
Assistant Professor Will Gay Bottje, A.Mus.D. (Eastman)	1957
Assistant Professor Robert B. Forman, Ph.D. (Florida State)	1954
Assistant Professor Robert S. Hines, M.M. (Michigan)	1957
Assistant Professor Phillip H. Olsson, M.M. (Chicago Conservatory of Music)	1949
Assistant Professor Robert Resnick, M.M. (Wichita)	1945
Assistant Professor William Tarwater, Ph.D. (Peabody)	1959
Assistant Professor Charles C. Taylor, Ed.D. (Columbia)	1957
Assistant Professor Robert E. Thomas, Ed.D. (Illinois)	1957
Assistant Professor John S. Wharton, M.M. (American Conservatory of Music)	1945
Instructor Donald G. Canedy, M.M.Ed. (Southern Illinois)	1958
Instructor Elisabeth D. Hartline, M.M. (Northwestern)	1936-38; 1953
Instructor William K. Taylor, M.M. (Indiana)	1955
Instructor Helen Matthes Vogler, Emerita (1954)	1920
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Lecturer Charles Baker, M.M. (Eastman)	1960-61
Lecturer William F. Betterton, M.A. (Iowa)	1959-61
Lecturer Carmine Ficocelli, M.M. (Indiana)	1957
Lecturer Mary Jane Grizzell, M.M. (Eastman)	1945-47; 1959-61
Lecturer Charles A. Kelleys, B.S. (Juilliard)	1960-61
Lecturer Bernard Shaak, M.A. (Columbia)	1959-61

During each academic year the Department of Music brings to the campus a series of distinguished musicians who join the faculty and students for a period of workshops, seminars, and performances. The roster for the past two years has included the following: Sigurd Rascher, saxophonist; Carl Weinrich, organist; Ernest and Lory Wallfisch, viola and piano

duo; Carl Luktenberg, harpsichordist; Willi Apel, Louis Cuyler, and Nicholas Slonimsky, musicologists; Rama Jucker, cellist; Joseph Szigeti, violinist; Robert Goldsand, pianist; the Oxford String Quartet.

The Department of Music is a member of the National Association of Schools of Music. The requirements for entrance and for graduation as set forth in this bulletin are in accordance with the published regulations of the National Association of Schools of Music.

In addition to its major courses offered through the School of Fine Arts, the department offers service courses to students in the other schools and colleges of the University. Its major curricula lead to the following baccalaureate degrees:

1. Bachelor of Music, for students in the School of Fine Arts, with specializations in music theory-composition, music history-literature, applied music, and music education.

2. Bachelor of Music Education, for students in the College of Education.

3. Bachelor of Arts, for students in the College of Liberal Arts who desire a specialization in music as part of their general cultural education.

Students who desire a minor in music must meet a minimum requirement of forty-two hours in music, the courses to be worked out in consultation with the department chairman.

GENERAL REQUIREMENTS

All resident music majors and minors must maintain a satisfactory membership in either a University band, orchestra, or chorus each quarter of their University attendance.

Students in the Bachelor of Music curriculum with a specialization in applied music must present a half-recital in their junior year and a full recital in their senior year. Students in the Bachelor of Music Education curriculum are encouraged to present a half-recital in their junior year and are required to present a half-recital in their senior year.

Recital attendance is required of all music majors. A minimum of thirty-five recitals per school year must be attended by each music major. A deficiency in recital attendance for any one year will result in the student's being placed on probation by the department the following year.

Each candidate for the Bachelor of Music or Bachelor of Music Education degree must pass the proficiency examination in piano as early as possible in his course of study. A student with no previous preparation in piano must elect class piano during his freshman and sophomore years. If he fails to meet the basic piano requirements at the end of this time, he must continue in class piano without credit until he passes the test. A candidate for the Bachelor of Music Education degree must also pass a proficiency test in

voice or elect class voice until he can pass the proficiency test. It is the responsibility of each student, with the assistance of his adviser and instructors, to meet these minimum requirements.

BACHELOR OF MUSIC DEGREE CURRICULUM

General Degree Requirements (See page 10.)	50
Required Music Courses	128
Music theory; 105, 106, 107, 205, 206, 207, 326	26
Music history-literature; 330, 331, 332	12
Applied music; 12 quarters of major ensemble	12
Piano proficiency, maximum of	6
One of the three specializations listed below ¹	72
	<u>128</u>
APPLIED MUSIC SPECIALIZATION	
Major instrument or voice, 12 quarters ²	48
Additional theory courses	12
Electives in music	12
	<u>72</u>
MUSIC THEORY-COMPOSITION SPECIALIZATION	
Major instrument or voice, 12 quarters	24
Class instruments and voice	6
Advanced theory-composition courses	24
Electives in music	18
	<u>72</u>
MUSIC HISTORY-LITERATURE SPECIALIZATION	
Major instrument or voice, 12 quarters	24
Advanced courses in music history and literature	9
Related history courses	9
Electives in music theory	18
Additional electives in music	12
	<u>72</u>
Electives	14
Total	<u>192</u>

¹ Before the end of his sophomore year the student should choose an area of specialization. This choice is subject to approval by the faculty adviser and the chairman of the department.
² For students combining this program with the prescribed courses for state certification in education, the applied major will be elected for two hours per quarter, totaling twenty-four hours.

MUSIC EDUCATION SPECIALIZATION

Students enrolled in the School of Fine Arts and working toward the Bachelor of Music degree may meet Illinois state requirements for a limited teaching certificate by using elective hours to take certain prescribed additional courses. These requirements cannot ordinarily be met within the minimum of 192 hours required for graduation, and the student should plan on attending the University several additional summer sessions if he wishes to graduate within the four-year schedule. Consult with the academic adviser of the School of Fine Arts for details. Material relative to certification requirements may be secured at the Registrar's Office.

*MUSIC CURRICULUM
IN THE COLLEGE OF EDUCATION*

The College of Education grants the Bachelor of Music Education degree with a major in music.

Courses required for the major for a student seeking the Bachelor of Music Education degree are Music (music theory) 105, 106, 107, 205, 206, 207, 309, 310, 311, 326, 441 or 443, 442; (music history-literature) 330, 331, 332; (music education) 330A, 303, 305I, 305V, 318, 319, 320; (applied music) 12 quarters of major ensemble, 12 quarters of major instrument or voice. Some prerequisites for student teaching are piano proficiency or piano class (maximum of 12 hours), voice proficiency or voice class (maximum of 1 hour), and 2 quarters each of class woodwinds, brass, and strings.

All candidates for the Bachelor of Music Education degree must meet the general degree requirements listed on page 9 of this bulletin, except that neither Art 120 nor Music 100 will be required for this degree.

For the College of Education requirements, please refer to the College of Education bulletin.

RECREATIONAL MUSIC

In co-operation with the Department of Recreation and Outdoor Education, the Department of Music offers a series of courses designed to prepare the specialist in recreational music. This program calls for approximately forty hours of course work in music, and, in conjunction with the prescribed courses in general education and in recreation and outdoor education, leads to the Bachelor of Science in Education degree with a major in recreation and outdoor education, offered by the College of Education. For details consult the academic adviser in the Department of Recreation and Outdoor Education.

MUSIC CURRICULUM IN THE COLLEGE OF LIBERAL ARTS AND SCIENCES

The music major curriculum in the College of Liberal Arts and Sciences is designed for students who wish to specialize in music as part of their general cultural education. It is also designed to provide a background training for those who may plan to pursue advanced studies in such fields as music criticism and aesthetics.

General degree requirements: Summarized earlier in this bulletin.

College of Liberal Arts and Sciences requirements: Refer to the College of Liberal Arts and Sciences Bulletin.

Required courses in music: 105, 106, 107, 205, 206, 207, 330, 331, 332; applied music courses (12 hours); electives in music (12 hours). Total: 60 hours.

GRADUATE DEGREES

The Department of Music offers courses leading to the Master of Music degree with specializations in theory-composition, music history-literature, or applied music, and the Master of Music Education degree. In co-operation with the College of Education, the Doctor of Philosophy degree in secondary education (major or minor in music) is offered. For additional information concerning the graduate programs refer to the Graduate School bulletin.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level may be taken by undergraduate and graduate students. Those on the 500 level are for graduate students only.

Courses are listed numerically in 6 categories: (1) music theory, (2) music history-literature, (3) church music, (4) recreational music, (5) music education, and (6) applied music.

MUSIC THEORY

105-4, 106-4, 107-4. **THEORY OF MUSIC.** Fundamentals of music in sight singing, ear training, harmony, and keyboard harmony.

200-3. **FUNDAMENTALS OF MUSIC.** A one-quarter course in the rudiments of music designed for those with little or no musical background, recommended as a course preliminary to 300B, Music Education—Elementary, for non-music majors.

205-4, 206-4, 207-4. **THEORY OF MUSIC.** Continuation of 105, 106, 107. Ad-

- vanced harmonic techniques, modulation, altered chords, chromatic harmony, and introduction to contemporary harmonic principles. Prerequisite: 107.
- 309-2, 310-2, 311-2. **ARRANGING I, II, III.** The techniques of writing for band, orchestra, and chorus. Practical work in scoring. Performance of scores by University ensembles. Prerequisite: 107.
- 312-2, 313-2. **COMPOSITION I, II.** Original composition in the smaller forms for piano, voice, string quartet, and other small combinations. Prerequisite: 207.
- 314-2. **COMPOSITION III.** Original composition in the larger forms. Prerequisite: 313.
- 326A-2, 326B-2, 326C-2. **ANALYSIS I, II, III.** The element of structure, form, and design in musical composition. Prerequisite: 207.
- 342-2, 343-2, 344-2. **COMPOSITION IV, V, VI.** Required of theory-composition specializations. Original work in contemporary idioms preparing for full recital of compositions during senior year. Prerequisites: 313 and consent of instructor.
- 441-2. **SIXTEENTH-CENTURY COUNTERPOINT.** Species counterpoint and creative writing in the style of Palestrina and his contemporaries. Prerequisite: 207.
- 442-2. **EIGHTEENTH-CENTURY COUNTERPOINT.** Analysis and creative writing in the contrapuntal-harmonic technique of Bach and his contemporaries. Prerequisite: 207.
- 443-2. **CANON AND FUGUE.** Analysis and creative writing of the larger imitative forms. Prerequisite: 442.

Courses on the 500 level are for graduate students only.

- 501-3. **INTRODUCTION TO GRADUATE STUDY IN MUSIC.** Basic bibliographical and research techniques in music theory, literature, and education.
- 502A-3, 502B-3, 502C-3. **HISTORY AND ANALYSIS OF MUSICAL STYLE.** Study of style in relation to evolution of musical materials. Three-quarter sequence.
- 531-2 to 9. **ADVANCED COMPOSITION.** Composition in the larger forms for solo and ensemble performance. Required of all theory-composition majors three hours per quarter; elective credit for majors in other areas. Prerequisites: 314, 442, and permission of instructor.
- 535-3. **CONTEMPORARY IDIOMS.** A study of techniques of composition developed during the twentieth century by composers of Europe and America.
- 545A-3, 545B-3, 545C-3. **PHILOSOPHIES OF MUSIC THEORY.** A study of the philosophies of music theory including an orientation of the philosophies of theory to the problems of pedagogy. Required of all theory-composition majors. Three-quarter sequence.
- 599-3 to 9. **THESIS.**

MUSIC HISTORY-LITERATURE

- 100-3. **MUSIC UNDERSTANDING.** An introductory course designed for non-music majors or for prospective music majors with background defi-

ciencies. Emphasis on background, purpose, and structure of representative compositions.

- 308-4. FOLK MUSIC. Comparison of folk music collected in Southern Illinois with that of other areas with emphasis on melodic structure and textual variants. Use of folk music by composers, ethnic groups, and recreational leaders. Prerequisite: 107 or consent of instructor.
- 315-2. OPERA REPERTORY. A study of operatic literature, including student participation in scenes from representative operas. Admission by consent of instructor.
- 330-4, 331-4, 332-4. MUSIC HISTORY AND LITERATURE I, II, III. An integrated course devoted to the development of musical thought and literature from the early Greek and Roman periods through the Renaissance. Music 331 is a continuation of 330 through the seventeenth, eighteenth, and early nineteenth centuries. Music 332 is a continuation of 331. Wagner, the rise of nationalism, late nineteenth- and twentieth-century composers.
- 411-3. SYMPHONIC LITERATURE. A study of the development of the symphony and the symphonic poem to 1900. Prerequisites: 330, 331, 332.
- 412-3. CHORAL LITERATURE. The literature of the larger vocal forms such as the cantata and oratorio. Prerequisites: 330, 331, 332.
- 413-3. CHAMBER MUSIC LITERATURE. Study of chamber music from the Renaissance to the present. Prerequisites: 330, 331, 332.

Courses on the 500 level are for graduate students only.

- 510-3. HISTORY OF PERFORMANCE PRACTICE. A study of tempo, pitch, and techniques of performance as they relate to musical literature and instruments of the various periods in music history.
- 512-3. HISTORY OF OPERA. The development of opera as a form with a detailed study of operas since 1600.
- 515-3. TWENTIETH-CENTURY LITERATURE. A survey of contemporary music of Russia, western Europe, and the Americas in its relation to sociological, political, and cultural developments.
- 518-3. PEDAGOGY OF MUSIC LITERATURE. Principles of teaching music literature and music appreciation courses at the college level.
- 520-3. AMERICAN MUSIC. The development of music in America from colonial days to the present.
- 522-3. SEMINAR IN MUSIC HISTORY-LITERATURE. Advanced study in special periods of music history-literature. Offered on demand.

CHURCH MUSIC

- 350-3. PRINCIPLES OF CHURCH MUSIC. A study of the historical development of music in the liturgical and nonliturgical churches, and the principles which govern the music of these churches.
- 351-3. ORGAN IN THE CHURCH SERVICE. The art of service playing with emphasis on solo repertoire and accompaniment techniques, for the church service. The function of the organ in the worship service.
- 352-3. CHOIR IN THE CHURCH SERVICE. The place of choir and other vocal music in the worship service with emphasis on repertoire, and conducting techniques.

RECREATIONAL MUSIC

- 307-4. RECREATIONAL MUSIC. For those interested in the less formal approach to music and for prospective leaders of recreational activities.
- 308-4. FOLK MUSIC. (See music history-literature courses.)
- 317-2. INSTRUMENTS FOR MUSIC RECREATION. Practical information in performance, use, and building of instruments for use in community recreational music programs. Prerequisite: 307.

MUSIC EDUCATION

- 300A-3. MUSIC EDUCATION—ELEMENTARY. Teaching music in the elementary grades. For music majors only.
- 300B-3. MUSIC EDUCATION—ELEMENTARY. Teaching music in the elementary grades. For non-music majors only. Prerequisite: 200 or equivalent.
- 303-3. MUSIC EDUCATION—SECONDARY. Teaching music in the high school.
- 305I-3. INSTRUMENTAL PROBLEMS AND MATERIALS. Administration of the school instrumental music program. Emphasis on library, physical facilities, organization of the marching band, arranging music for out-of-doors performance.
- 305V-3. VOCAL PROBLEMS, MATERIALS, AND CONDUCTING. Vocal and psychological problems in handling choral groups, reading and acquaintance with a variety of choral materials at the high school level, and interpretation through conducting techniques.
- 318-2, 319-2, 320-2. CONDUCTING I, II, III. Techniques employed in conducting vocal and instrumental groups of various sizes and combination. Students provided with opportunities to conduct University ensembles.
- 451-2. THE TEACHING OF GENERAL CLASSROOM MUSIC IN THE JUNIOR AND SENIOR HIGH SCHOOL.
- 455-2. WORKSHOP IN ELEMENTARY MUSIC EDUCATION.
- 461-2. TEACHING TECHNIQUES AND MATERIALS FOR THE INTERMEDIATE LEVELS. Piano or voice. Designed to meet the needs of piano or voice specializations in the Bachelor of Music or the Master of Music degree programs. Problems of private studio teaching and college-level teaching are studied.
- 462-2. TEACHING TECHNIQUES AND MATERIALS FOR THE ADVANCED STUDENT. Piano or voice. Continuation of 461.

Courses on the 500 level are for graduate students only.

- 550-2. ORGANIZATION AND ADMINISTRATION OF THE MUSIC EDUCATION PROGRAM—ELEMENTARY.
- 551-2. ORGANIZATION AND ADMINISTRATION OF THE MUSIC EDUCATION PROGRAM—SECONDARY.
- 553-3. SEMINAR IN CHORAL MATERIALS AND TECHNIQUES.
- 554-3. SEMINAR IN INSTRUMENTAL MATERIALS AND TECHNIQUES.
- 556-2 to 6. ADVANCED CONDUCTING. Problems in reading symphonic scores and interpretation. Laboratory conducting of larger University ensembles.

560-2 to 3. SEMINAR IN MUSIC EDUCATION. A study of trends, current practices, philosophies of music education.

APPLIED MUSIC

Ensembles:

001-1. BAND.

002A-1. CHORUS.

002B-1. CHORUS (ORATORIO).

003-1. ORCHESTRA.

345-1. MADRIGAL SINGERS.

346-2 to 12. OPERA WORKSHOP.

355-1. CHAMBER MUSIC. String ensemble, quartet.

365-1. CHAMBER MUSIC. Woodwind and brass ensemble.

Private instruction is offered in the following areas of applied music. Credit varies from one to four hours. Consult with adviser for details of credit and requirements.

011. VIOLIN

012. VIOLA

013. CELLO

014. STRING BASS

021. FLUTE

022. OBOE

023. CLARINET

024. BASSOON

025. SAXOPHONE

031. PERCUSSION

041. PIANO

051. FRENCH HORN

052. TRUMPET

053. TROMBONE

054. TUBA

055. BARITONE

061. VOICE

071. ORGAN



Class instruction is offered in all areas of applied music. These courses include the minimum instruction required for passing the proficiency examinations in piano and voice and they offer practical training in the basic principles of playing the instruments of the orchestra and band. They also include introductory techniques and methods for teaching instrumental and vocal groups in the elementary and secondary schools. Each of the following courses is offered for one hour of credit each quarter:

010a. VIOLIN

010b. VIOLA

010c. CELLO

010d. STRING BASS

020a. FLUTE

020b. OBOE

020c. CLARINET

020d. BASSOON

020e. SAXOPHONE

030. PERCUSSION

040. PIANO

050a. FRENCH HORN

050b. TRUMPET

050c. TROMBONE

050d. TUBA

050e. BARITONE

060. VOICE

Courses on the 500 level are for graduate students only.

566-1 to 4. INSTRUMENTAL ENSEMBLE. Participation in a chamber or large ensemble for purposes of studying and performing literature in the field of the major instrument other than solo literature.

567-1 to 4. VOCAL ENSEMBLE. Participation in a chamber or large ensemble for purposes of studying and performing literature in the field of the vocal music other than solo literature. Includes madrigal groups, choral ensembles, women's chorus, etc.

568-2 to 4. OPERA WORKSHOP. An intensive course in opera for voice majors, including the study of scenes and entire operas and public performances therein.

Candidates for the Master of Music or Master of Music Education degree who wish to choose applied music courses as electives will take the 400-series course in their major instrument or voice for two hours of credit per quarter. Applied music majors in the Master of Music curriculum will take the 500-series course in their major instrument or voice for four hours of credit per quarter. These are considered artist-level courses and admission to them and to the degree program must be obtained from the chairman of the department after passing a jury placement examination.

In both the 400 and 500 series of courses the emphasis is placed upon the literature of the instrument or voice with the assumption that the learning of techniques will have largely been mastered at the undergraduate level.

For specific repertoire requirements in each course see the chairman of the Department of Music.

Elective courses in applied music in major instrument or voice:

471-2 to 8, 571-4 to 16. PIANO

472-2 to 8, 572-4 to 16. VOICE

473A-2 to 8, 573A-4 to 16. VIOLIN

473B-2 to 8, 573B-4 to 16. VIOLA

473C-2 to 8, 573C-4 to 16. CELLO

473D-2 to 8, 573D-4 to 16. STRING BASS

474A-2 to 8, 574A-4 to 16. FLUTE

474B-2 to 8, 574B-4 to 16. OBOE

474C-2 to 8, 574C-4 to 16. CLARINET

474D-2 to 8, 574D-4 to 16. BASSOON

474E-2 to 8, 574E-4 to 16. SAXOPHONE

475A-2 to 8, 575A-4 to 16. TRUMPET

475B-2 to 8, 575B-4 to 16. FRENCH HORN

475C-2 to 8, 575C-4 to 16. BARITONE

475D-2 to 8, 575D-4 to 16. TROMBONE

475E-2 to 8, 575E-4 to 16. TUBA

476-2 to 8, 576-4 to 16. ORGAN

Southern Illinois University Foundation

The Southern Illinois University Foundation is a nonprofit corporation chartered by the state and authorized by the Board of Trustees to receive gifts for the benefit of the University, to buy and sell property, and otherwise to serve the University.

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Objectives of Southern Illinois University

TO EXALT BEAUTY

IN GOD,
IN NATURE,
AND IN ART;
TEACHING HOW TO LOVE THE BEST
BUT TO KEEP THE HUMAN TOUCH.

TO ADVANCE LEARNING

IN ALL LINES OF TRUTH
WHEREVER THEY MAY LEAD,
SHOWING HOW TO THINK
RATHER THAN WHAT TO THINK,
ASSISTING THE POWERS
OF THE MIND
IN THEIR SELF-DEVELOPMENT.

TO FORWARD IDEAS AND IDEALS

IN OUR DEMOCRACY,
INSPIRING RESPECT FOR OTHERS
AS FOR OURSELVES,
EVER PROMOTING FREEDOM
WITH RESPONSIBILITY.

TO BECOME A CENTER OF ORDER AND LIGHT

THAT KNOWLEDGE MAY LEAD
TO UNDERSTANDING
AND UNDERSTANDING
TO WISDOM.

Summer Session 1961



SOUTHERN ILLINOIS UNIVERSITY BULLETIN

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College of Liberal Arts and Sciences
School of Agriculture
School of Applied Science
School of Business
School of Communications
School of Fine Arts
School of Home Economics
University Institutes
Division of Technical and Adult Education

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This Bulletin

covers in detail questions concerning the 1961 Summer Session. It does not cover all questions concerning Southern Illinois University. For complete information about the University the prospective student should refer to the General Information bulletin.

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University Calendar, 1961-1962

SUMMER SESSION

Session Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Final Examinations	Wednesday–Thursday, August 9–10
Commencement	Friday, August 11

FALL QUARTER

New Student Week	Sunday–Tuesday, September 17–19
Quarter Begins	Wednesday, September 20
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 22–27
Final Examinations	Monday–Saturday, December 11–16

WINTER QUARTER

Quarter Begins	Tuesday, January 2
Final Examinations	Monday–Saturday, March 12–17

SPRING QUARTER

Quarter Begins	Monday, March 26
Memorial Day Holiday	Wednesday, May 30
Final Examinations	Wednesday–Tuesday, June 6–12
Commencement	Wednesday, June 13

Summer classes will begin on Tuesday, June 20. During the fall, winter, and spring quarters, day classes will begin on the second day of the quarter. Evening classes (5:45 P.M. or later) will begin on the first day of the quarter.

Registration Calendar

April 10– June 2	Students enrolled in the 1960 summer session or the 1961 spring quarter may be advised and may register.
June 15–16	Additional advisement and registration period for students who were not on the campus during the 1961 spring quarter.
May 27	Students will receive fee statements by mail if registered by this date. Students who register between May 29 and June 2 or on June 15, 16, or 19 must pay fees at the time of registration.
June 9	Students will have their advance registration cancelled if fees are not paid at the Bursars' Office by 3:30 P.M.
June 19	Summer Session begins. Last day of regular registration.
June 20	Classes begin except for certain workshop courses which open on June 19. (See Schedule of Classes.)
June 20–24	Late registration period. Late fee will be assessed. Students registering only for a special course which begins later than June 19 may register on the first meeting day of class without late-fee payment.
June 26	Last registration day without dean's written approval.
July 1	Last day to withdraw from school to be eligible for a refund of fees.
July 3	Last day for refund application to be submitted to Registrar's Office for refund of fees.
July 7	Last day to withdraw from a course without receiving a letter grade.

The Summer Session

THE SUMMER SESSION at the Carbondale Campus consists of a comprehensive program of courses offered by most of the departments of the University.

The program of studies for the 1961 Summer Session has been planned to meet the needs of the following groups:

In-service teachers and administrators who wish to study at the undergraduate and graduate levels,

Regular undergraduate and graduate students who wish to accelerate the completion of their degree requirements.

High School graduates who wish to begin work toward a degree.

Persons who wish to register for specialized courses but are not working toward a degree.

Persons who wish to attend special-interest conferences and lectures.

Outstanding high school juniors and seniors who wish to participate in specialized noncredit programs.

The eight-week session opens on June 19 and closes on August 11. Students may register for courses which continue during the entire session or for specialized programs which vary in length from one day to four weeks.

Students who know at the time the summer session opens that they must miss more than three days of the sessions should not register or, if they have registered in advance, should withdraw. The brevity of the summer session makes it difficult for students missing more than three days to complete the required work in time.



1 / Special Programs

LISTED IN this section are programs of special interest to high school juniors and seniors, recent high school graduates, regular college students, and part-time students who may or may not be working toward a degree. Among the special programs are field courses, institutes, workshops, short courses, lectures, and conferences. Both credit and noncredit programs are listed.

CREDIT COURSES

Students may register for the credit courses during the advance registration period from April 10 through June 2 and on June 15 and 16. Students may also register on June 19, the opening date of the summer session. Students registering only for a special course which begins later than June 19 may do so at the first meeting of the course without late fee payment.

Fees for the special credit-courses are assessed on the same basis as fees for regular courses. (See "Fees for the 1961 Summer Session" in chapter four of this bulletin.)

Workshops and Short Courses

Economics

The Economic Education Workshop (Economics 490-4 or Secondary Education 490-4) July 3-14, Monday through Friday, 8:55-11:35 and 1:10-3:50. This workshop will be offered by the Department of Economics and the Department of Secondary Education. Detailed information may be found under "Secondary Education" in this chapter.

Elementary Education

The Department of Elementary Education will offer six workshops this summer.

Workshop in Elementary School Foreign Language Instruction (Elementary Education 435-4 to 8 or Foreign Language 435-4 to 8) June 19-July

14, Monday through Friday, 7:30–11:35. This workshop is offered in co-operation with the Department of Foreign Languages.

Workshop in Elementary Education (Kindergarten-Primary) (Elementary Education 433–4) June 19–July 14, Monday through Friday, 8:55–11:35. This workshop is designed to meet the needs of those in-service and pre-service kindergarten and first grade teachers who wish to improve the educational program for young children by studying problems related to school beginners, curriculum, administrative procedures, evaluation and parent education, and the implications of the needs of four-, five-, and six-year-old children as they relate to the school program. Library facilities and the facilities of the University School will be drawn upon to furnish background for discussion of current issues. Much time will be devoted to group and individual observation in the University School. Dr. Rebecca Baker is the instructor. Staff of the University will be made available for discussion and consultation wherever needed.

Improvement of Instruction in Arithmetic (Elementary Education 415–3) July 10–28, Monday through Friday, 1:00–3:15. The instructor will be Dr. Harold Lerch. Emphasis will be given to new instructional practices, materials of instruction, methods of providing for the gifted, and means of evaluating achievement. The workshop is open to both graduate and senior college students and is planned particularly to meet the needs of in-service and prospective teachers.

Workshop in Social Studies (Background material for grades 4 through 8) (Elementary Education 443–4) June 19–July 14, Monday through Friday, 1:10–3:15. The purpose of the workshop is to improve backgrounds of teachers in crucial areas in the social studies. The first week will deal with changing

UNIVERSITY SCHOOL



concepts in geography. Another week will be devoted to Asia; another, to Africa; and a fourth, to Russia and Eastern Europe. Approximately twenty outstanding social scientists from the University will discuss the areas of the world with which they are most familiar. Many of these instructors have spent extended periods of time in the countries they are to discuss. This is an unusual opportunity to become better informed on the critical areas of the countries which should be receiving attention in the elementary school program. The participants will work in groups to develop resource units in the various areas.

Leadership in Elementary Education (Elementary Education 558-3) June 19-30, Monday through Friday, 8:55-12:00 and 1:00-3:00. Elementary principals will have an unusual opportunity to work with Dr. Robert Eaves, Executive Secretary of the National Department of Elementary Principals. Dr. Eaves has had contact with elementary school principals in all sections of the country. He is familiar with the most recent developments in elementary education. The workshop will deal with ways the principal can work effectively with his faculty, community, and students. Stress will be placed on in-service training, curriculum development, supervision, and public relations.

Aero-Space Education Workshop (Elementary Education 401-4 or Secondary Education 401-4) August 14-25, Monday through Friday, 8:55-11:35 and 1:10-3:50. See "Secondary Education" for details.

English

Workshop in High School English (English 486-2) June 26-July 7, Monday through Friday, 8:30-12:00 and 1:00-3:00. This is a special workshop for English teachers at the senior high school level. It will be conducted by Professor J. N. Hook, executive secretary of the National Council of Teachers of English and member of the faculty of the University of Illinois. Registration will be chiefly by invitation to specific teachers of high school English and to high school administrators. The intention is to set up a syllabus for high school composition and to consider ways in which high school administrators can co-operate to enable such a syllabus to be put into effect.

Food and Nutrition

School Lunch Program (Food and Nutrition 248-2) June 19-23, Monday through Friday, 9:00-12:00 and 1:00-4:00. This course will be of value to all interested in the school lunch program. It will include up-to-date information on quantity food production, use of the school lunch room for emergency feeding, equipment, sanitation, management, and personnel relationships. It will not be a duplication of Food and Nutrition 247, which was offered last summer.

Foreign Languages

Workshop in Elementary School Foreign Language Instruction (Foreign Language 435-4 to 8 or Elementary Education 435-4 to 8) June 19-July 14, Monday through Friday, 7:30-11:35. This workshop will be open to students of foreign languages, to elementary teachers with one year or more of college French, German, or Spanish, and to high school foreign language teachers who are interested in teaching a language to grade school children. Included are oral drills in the language chosen, discussions of methods, lectures on the learning problems of young children, observations of pilot classes, and practice with special materials. Integration of foreign languages with the child's regular programs is stressed.



Workshop participants make use of the new LANGUAGE LABORATORY facilities.

Geography

Workshop in the Geography of Latin America (Geography 485-4) July 10-August 4, Monday through Friday, 8:55-11:35. This workshop, offered jointly by the Department of Geography and the Latin American Institute, is designed primarily for in-service geography and social-studies teachers in the elementary and junior high schools. The prime objective of the workshop is to create in the teacher a thorough understanding of, and identification with, Latin American environment and culture which can be transmitted to the students. The ultimate goal is to create in youth a clear understanding of social and cultural conditions extant in the countries to the south.

The geographical survey of Latin America will be augmented with lectures and demonstrations by members of the co-operating departments of Anthropology, Economics, Government, History, Foreign Languages, and the University Museum. The Latin American Institute will provide the workshop participant with numerous supplementary teaching aids, and the University Museum will assist with displays and exhibits of arts and crafts. The student will have opportunity to work on lesson plans and projects suited to his teaching level.

Government

Development of German Democracy (Government 454-8). For the second consecutive summer, Southern Illinois University in co-operation with the University of Hamburg is sponsoring an overseas course. This program of government study abroad is an on-the-spot case study. Attention is given to the influence of German history upon present-day problems, the implications of the new post war Constitution of the Federal Republic of (West) Germany, and the rise of an economic, social, and political European Community of which West Germany is an integral part. All lectures are in English, and knowledge of the German language is by no means essential.

Unless students make other arrangements, they will leave Chicago in a group via Lufthansa (German Airlines) jet on July 15. Classes will start on July 17, although a regular classroom on the campus of the University of Hamburg may not be available until the end of the month. Students will be placed as soon as possible in private homes of English-speaking German residents of Hamburg. At least the last three weeks of the course will be on the campus of the University of Hamburg, and a final examination will be given on August 19.

All returns to the United States will be on an individual basis. Most students will want to use the Lufthansa multi-stopover plan, staying as long in various European cities (along the stopover route chosen) as available time and money permit. For example, Hanover, Bremen, Brussels, Paris, Amsterdam, and Paris may be visited for no additional cost.

This group studied in Germany during the 1960 summer session.



This class will be taught by Professor Orville Alexander, chairman of Southern's Department of Government. Professor Alexander taught the class last summer and is enthusiastic about its value. He will serve primarily as a co-ordinator. Distinguished professors of the University of Hamburg and high officials of the government of Germany will be guest lecturers and will supply a goodly part of the factual material of the course. Classes will meet mornings and afternoons, Monday through Friday, leaving weekends for optional ex-

cursions to nearby points of interest. (Last year the German Government invited the class to Berlin for one of the most memorable weekends during the course.)

It is estimated that the course will cost approximately \$900. This includes all foreseeable necessary expenses for the period of the course. There is, of course, no guarantee that a student would not spend more. The estimate includes (1) economy-class, round-trip transportation between Chicago and Hamburg by modern jet planes, (2) Southern's regular fees of \$48.65, not including Special Fees on page 32, and (3) living expenses in Hamburg, which are quite moderate by American standards. The estimate is based upon Lufthansa rates in effect December 1, 1960, and upon the experiences of last year. It is our belief that travel facilities can be provided for any free time a student would like to spend in Europe after the class is over at a total cost of not more than \$50 per week.

Admission to the course is with the consent of the American professor, and all inquiries should be directed to Professor Orville Alexander, Chairman, Department of Government.

Guidance

Institute for Rehabilitation Personnel (Guidance 481-4) July 10-21, Monday through Friday, 7:30-11:35 and 1:10-3:50. Sponsored by the Rehabilitation Institute, this course is designed primarily for those workers already employed in the broad field of rehabilitation. Emphasis will be placed upon the scope of rehabilitation, services available to the handicapped, skills inherent in the rehabilitation process, and methods of mobilizing professional and community resources to meet the needs of the disabled.

The Illinois Division of Vocational Rehabilitation, the Illinois Tuberculosis Association, and the Illinois Department of Public Welfare are co-operating with the University in conducting this institute; other participating agencies are the Illinois Public Health Department, and the Tuberculosis Institute of Chicago and Cook County. Prominent speakers from Southern Illinois University, other universities, rehabilitation agencies, and state and federal offices will participate.

Students will be admitted only by special permission of a committee. The admission procedure will be outlined in an advanced announcement of the institute. For additional information, contact Dr. Guy A. Renzaglia, Associate Professor and Director, Rehabilitation Institute.

Health Education

Workshop in School Health Education (Health Education 461-4, 462-4, or 463-4) June 19-July 14, Monday through Friday, 1:10-4:30. The workshop is open to senior and graduate students and to others by special permission of the workshop director.

The workshop will provide the opportunity for work and participation in

school health instruction, school health services, school health environment and administration. Lectures will be given by Southern Illinois University staff members and outside specialists. Students will take part in group workshop sessions, consider individual school health problems, participate in group discussions, have a preview of audio-visual aids, evaluate teaching materials, and see demonstrations and have practice in testing and screening for health. The workshop has been designed for public school teachers, school nurses, school administrators, and health educators.

Workshop in Safety Education (Health Education 480S-4) July 17–August 11, Monday through Friday, 1:10–4:30. This is a summer workshop designed to give teachers and school administrators an opportunity to explore problems and evaluate current curricula in general safety instruction. Workshop participants will be given an opportunity to work on teaching units that will form the framework for a new course of study for the secondary school.

The workshop will be under the direction of Dr. Herbert J. Stack, program associate of the Center for Safety Education, New York University. Dr. Stack, one of the pioneers in safety education, will join Southern's staff for the entire summer session.

There will be lectures by state and national consultants, as well as staff members of the University, and ample opportunity to exchange ideas and review current philosophy in the teaching of education for safe living.

Home and Family

Work Simplification in Home Management (Home and Family 435-4) July 17–August 11, Monday, Tuesday, Thursday, and Friday, 8:55–11:35. This will be a study of basic work-simplification principles and their application to full-time, employed, and physically handicapped homemakers. The course will be open to graduate students and undergraduate students with senior standing. It should be of particular interest to home economists in teaching, extension, or business and to workers in rehabilitation programs.

Industrial Education

New Developments in Industrial Education (Industrial Education 560-2). This course is designed so that students may register for a two-week intensive course at four different periods during the summer session, thus earning from two to eight hours of credit. The subjects deal with significant developments, pressing problems, and emerging trends in the industrial education and technical fields. Selected subjects are handled by recognized authorities in the field.

Outstanding specialists have been selected to present lectures on the newer developments as they have become apparent during the past scholastic year. The subjects and the schedule of presentation follow:

The Area Technical School of the Future	June 20-23	Mr. William N. Fenninger Executive Secretary American Technical Education Assn.
	June 26-29	
Comparative Industrial Education with Emphasis on Russian Education	July 3-7	Mr. Mark Nichols Director of Vocational Education State of Utah
	July 10-13	
Professional Writing for Publication	July 18-21	Mr. Wesley Stephens McKnight and McKnight Publishing Company
	July 24-27	
Industrial Education in the 1970's	August 1-4	Dr. Ivan Hostetler, Head Industrial Arts Department North Carolina State College
	August 7-10	

Instructional Materials

Preparation of Teacher-Made Audio-Visual Materials (Instructional Materials 445-4) June 20-July 14, Monday through Friday, 1:10-3:50 or July 17-August 11, Monday through Friday, 7:30-10:10. The workshop is designed to provide experiences in the preparation of such teacher-made materials as felt boards, buzz boards, accordians, passe-partout, slides, transparencies, lettering, and dioramas; mounting of pictorial materials; and many other production skills. This course will demonstrate how these instructional aids can be produced with a minimum of materials and time.

Music

Opera Workshop (Music 346-2 to 8 or 568-2 to 8). In co-operation with the Department of Theater, the Department of Music is offering its Sixth Annual Summer Opera Workshop. The workshop may be elected for 2, 4, 6, or 8 hours of credit with consent of the instructor. In past years such large-scale works as *Oklahoma*, *Finian's Rainbow*, *Most Happy Fella*, *Carousel*, and *South Pacific* have been presented, and a similar musical-dramatic production is planned for the 1961 summer session. Members of the workshop will be on call for rehearsals nightly from 7:00 to 10:00 P.M. Special workshop projects are planned for afternoon sessions on call daily from 2:30 to 4:30 P.M. The workshop is designed as a medium of experience for singers, instrumentalists, actors, stage crews, and music or dramatic directors who wish to gain a deeper insight into the production problems of this type of performance.

Elementary Music Education Workshop (Music 455-4) July 3-14, Monday through Friday, 9:00-12:00 and 1:30-3:30. The workshop, presented by Dr. Thomas, Assistant Professor of Music, meets in air-conditioned Altgeld

Hall and is open to all elementary teachers who are concerned with teaching music in the classroom.

Workshop (Seminar) in Choral Materials and Techniques (Music 553-3) July 17-28, Monday through Friday, 1:00-4:00. This workshop will be led by Mr. Robert Hines and Dr. Charles Taylor. Utilizing the resources of the University Choir and the summer program of the University Grade and High School, the course will be devoted to reading of new materials, preparing a major work for performance, critique of conducting techniques, and analysis of grade school, junior high school, and senior high school vocal problems. The workshop will be held in the air-conditioned choral room of Altgeld Hall.

Workshop (Seminar) in Instrumental Materials and Techniques (Music 554-3) July 17-28, Monday through Friday, 9:00-12:00. This workshop will be led by Mr. Phillip Olsson, Mr. Donald Canedy, and Dr. Robert Forman. Designed to provide a practical-experience course for instrumental directors, the workshop gives special attention to instrumental techniques and their related problems of teaching and performance, critique of conducting, marching band organization, arranging, and new band literature.

The two workshops, Music 553 and 554, have been scheduled conjunctly so that general supervisors of music education may enroll in both workshops during the two-week period.

Physical Education for Women

Teaching Basic Activities to Junior and Senior High School Girls (Physical Education for Women 362-1 to 4) June 19-July 14, Monday through Thursday, 1:10-4:00. This course, although it has no prerequisite, is the third in a series offered during the summer to help inadequately prepared teachers of physical education. It is open to all teachers who need additional work in teaching girls' physical education.

This course is divided into four one-week units. Each unit may be taken for 1 hour of credit. The first week is devoted to teaching basic body movement, including analysis of movement, skills underlying all activities, and fitness. The second emphasizes teaching dance. The third stresses badminton and recreational games. The last week presents the teaching of softball.

Recreation and Outdoor Education

Under direction of the University's Department of Recreation and Outdoor Education, a varied instructional program will be offered at the University's Little Grassy Lake Camp. In addition to course work in recreation and outdoor education, there will be courses in geology, health education, and physical education.

The Department of Recreation and Outdoor Education is also offering two summer workshops. Both courses may be taken for either credit or noncredit, and all sessions will be held at the University's Little Grassy Lake Camp. Lodging and meals will be provided at a nominal cost.

Playground Leadership Workshop (Recreation and Outdoor Education 312-2) June 14-17. This workshop will be offered for recreation majors and minors and for those who desire some preparation and leadership training for playground programs, church programs, and youth leadership programs for the summer.

Camp Leadership (Recreation and Outdoor Education 311-2 to 6 or 510-4) July 10-21. This workshop is to give teachers experience in outdoor education and to demonstrate to school administrators, agency executives, recreation leaders, and others the values of outdoor education in their total educational programs. A special project is required for graduate credit.

Secondary Education

Economic Education Workshop (Secondary Education 490-4 or Economics 490-4) July 3-14, Monday through Friday, 8:55-11:35 and 1:00-3:50. Dr. John A. Cochran of the Department of Economics and Mr. Harrell Largent will serve as co-ordinators. The plan is to have lectures dealing with common economic problems presented daily by outside resource people. The remainder of each day will be devoted to discussing the content of the lectures and suggesting implications for developing economic concepts in the schools' curricula, grades one through twelve.

This workshop is co-sponsored by the Joint Council on Economic Education and Illinois Economic Councils of Education and by the departments of Secondary Education and Economics. Schools are encouraged to send a team of participants. Ideally, a team would consist of a teacher from each of the grade levels and an administrator. However, it is possible that one teacher will be accepted from a school system.

There are some scholarships available to be awarded to those who apply for admission to the course. The value of these scholarships will represent approximately the regular tuition charged for that much work in the summer session and noonday lunch throughout. Inquiries should be directed to Dr. John Cochran or Dr. Clarence D. Samford.

Junior High School Curriculum and Administration (Secondary Education 469-4) June 19-30, Monday through Friday, 8:55-11:35 and 1:10-3:50. It is felt that junior high school education is an area which should receive at-

tention at this particular time following the Conant report. It is recognized that this intermediate school is always an important consideration in that early adolescent students need a special type of attention and curriculum.

The purpose of this workshop is to deal generally with the problems of successful administration of this division and the most appropriate curriculum. Specifically it is planned to give a generous amount of attention to problems posed by the participants of the workshop.

Dr. I. I. Nelson, from the College of Education of the University of Texas, has been secured as co-ordinator for the workshop. Dr. Nelson has an enviable national reputation because of his research activities and his practical work with numerous junior high schools and their staffs. Inquiries may be directed to Dr. Clarence D. Samford.

Aero-Space Education Workshop (Secondary Education 401-4 or Elementary Education 401-4) August 14-25, Monday through Friday, 8:55-11:35 and 1:10-3:50. The purpose of this workshop is to stress the importance of the topic of aero-space education in modern civilization. Every effort will be made to study well the social implications for present day society. Some of the most elementary questions in the scientific background of this period will be answered to the extent that such information is needed by the social studies teacher in discussing these problems. The United States Civil Air Patrol is co-operating with the two departments in arranging and carrying out the duties of this workshop.

The course will point out the numerous available source materials and resource individuals that should be known by elementary and secondary school teachers. It is probable that some optional field trips will be taken. Please direct inquiries or indicate the fact that you want to take the workshop to Dr. J. Murray Lee, Chairman, Department of Elementary Education or to Dr. Clarence D. Samford, Chairman, Department of Secondary Education.

Special Education

The Gifted Child (Special Education 412-4) July 17-28, Monday through Friday, 8:00-3:00. A demonstration class will be taught by an outstanding teacher in conjunction with the theory part of the course. The course will explore problems of screening and identification and will examine methods of enrichment and acceleration. Major emphasis will be on teaching so that students in the workshop will be able to carry out programs in the local school situation.

Theater

Theater Practicum (Theater 322-12 or 519-12). The Department of Theater, which has in past summers conducted a summer-stock company in the

Shepherd of the Hills Theater, Branson, Missouri, and New Salem State Park near Springfield, Illinois, will bring the company to Carbondale for the third summer in 1961.

In the air-conditioned Playhouse, the company will present Eugene O'Neill's *Touch of the Poet*, Ugo Betti's *Summertime*, George Bernard Shaw's *Candida*, Hendrick Ibsen's *Ghosts*, and Ray Lawler's *Summer of the 17th Doll*. The departments of Theater and Music will co-operate in the presentation of an outstanding music drama.

Teachers, college students, and citizens of Carbondale and other Southern Illinois communities who wish to join the company need only register, with the consent of the Department of Theater, for twelve hours in Theater Practicum. Anyone interested in performing only in the music drama should write to Dr. Fred Denker, Chairman, Department of Music.

Summer-stock students learn, in the most practical way, directing, acting, business management, lighting, make-up, scenery building, and painting. Registration for Theater Practicum and membership in the stock company must be completed before June 1. Anyone interested in further particulars about the summer-stock program should write to Dr. Archibald McLeod, Chairman, Department of Theater.

Summer Institutes for High School Teachers

Students enrolling in the biology or mathematics program under grants from the National Science Foundation pay no tuition or fees. They are not entitled to the special student benefits of hospitalization. They are, however, entitled to the normal services provided by the medical staff of the University Health Service. Any obligation incurred by referral to specialists for medical or dental care and any hospitalization expenses are to be paid for by the enrollees. Books and personal materials used in the institute are to be purchased by the student.

Biology

Southern Illinois University is one of several universities selected by the National Science Foundation to offer a special eight-week institute for biology teachers. The institute will run concurrently with the summer session, June 19 through August 11.

The institute is designed to improve the teaching of biology in high school by allowing the participants to extend their preparation in subject matter. It should also contribute to greater mutual understanding and appreciation of teaching problems between secondary and college teachers.

Under terms of the grant from the National Science Foundation, teachers who qualify can receive up to \$75 per week plus \$15 weekly for each of their first four dependents. In addition, they may receive a maximum of \$80 travel

allowance. Tuition scholarships will be provided by the University. Applications for stipends may be obtained from the NSF Summer Institute for High School Teachers of Biology, Room 11, Life Science Building. The completed forms must be postmarked by February 15, 1961.

Southern will award grants to 45-50 selected high school biology teachers. Participants must be experienced teachers in high school biology who expect to continue in the profession. Grants will be made by April 1.

Special institute courses will be offered in botany, microbiology, and zoology. (See Schedule of Classes for specific courses.) Credit in these courses may apply toward the Master of Arts, Master of Science, and Master of Science in Education degrees.

Mathematics

A Summer Institute for High School Teachers of Mathematics, sponsored by the National Science Foundation, will be offered by Southern Illinois University during the 1961 summer session. The purpose of the institute is to improve the teaching of high school mathematics by raising the level of mathematical competence of the teachers.

Approximately forty teachers will be admitted to the institute. Stipends will be provided for the participants by the National Science Foundation, and Southern Illinois University will provide tuition scholarships for them. Applications for participation must be submitted by February 15, 1961.

NONCREDIT COURSES

Orientation for Foreign Graduate Students of Agriculture

A special orientation course for foreign graduate students of Agriculture will be given concurrently with the Summer Session under the supervision of the School of Agriculture. Many such students have had difficulty with terminologies in their fields of study as well as with language. This course is intended to acquaint students with practices, terms, and conditions applying to all phases of agricultural production, marketing, and services. It will provide practical knowledge of crops, implements, livestock, farmsteads, and homes on American farms and broad general information on the agricultural industry of the United States. The language phase of the course will emphasize use of the oral language, since foreign students usually have most difficulty in speaking and comprehending the spoken word. Although it is a noncredit course, it should facilitate greatly the progress of most foreign students in graduate work. The Council on Economic and Cultural Affairs has provided a grant to pay a part of the costs of the course in 1961.

Adult Education Short Courses

The following noncredit courses are sponsored by the Division of Technical and Adult Education. For further details, write to Adult Education, Southern Illinois University, Carbondale, Illinois.

Municipal Finance Officers Training, June 1, 2. This course, offered in co-operation with the Department of Government, has been designed for city and village clerks, treasurers, and mayors. Topics will include sources of revenue, budget preparation, fund management and transfers, purchasing practices, municipal contracting, and planning for expenditures to meet future demands. Tuition: \$6 plus fee for housing, meals, and supplies.

Restaurant and Institutional Food Buying, June 5. This course, designed for those responsible for purchase of food in quantity through the co-operative method, will include cost control, means of measuring quality, and ways to detect fraudulent representation. Tuition: \$3.

Packaging, June 8, 9. This course, planned for management to meet an increasingly important problem of packaging, helps answer questions of the "over-package", the package to convey true corporate image, how to keep the size of the package moderate, and how to use modern technological changes in package design. Tuition: \$6 plus fees for housing, food services, and supplies.

Barge Loading, June 15, 16. This course, offered for dock foremen, longshoremen, and checkers, will include terminal operation of loading, unloading, and handling of liquid, bulk, and special types of cargo. Other subjects included are fleetings for unloading, safety regulations, claim prevention, cost control, and psychology of human relations. The course is offered in co-operation with the Transportation Institute. Tuition: \$6 plus fees for housing, food services, and supplies.

School Office Secretaries, June 17. Designed for those employed as office clerks, stenographers, and secretaries in school offices for principals, superintendents, and boards of education, this course will include better telephone techniques, improvement of supervision of other office workers, building public relations, better filing methods, how to improve person-to-person communication, and improvement of personal appearance. Tuition: \$3.

School Lunch, June 18-23. Mornings will be given over to quantity food products, and the afternoon sessions will deal with evaluations, sanitation,

using the school lunch room for emergency seating, and working with people. The sessions will be held in the Home Economics Building. They are designed primarily for school lunch room workers and administration. Three people from active and school lunch work will assist with the food preparation, and all meals will be prepared while on the Southern Illinois University campus by the students of the class. This course is offered in co-operation with the School of Home Economics. Tuition: \$5 plus additional \$2 for supplies.

Practical Aspects of Foreign Trading for Waterways, July 13, 14. Planned for inland waterways and Great Lakes shipping, the course will be offered in co-operation with the Transportation Institute. Topics to be included are port operation, modes of transportation to and from port terminals, marine insurance, import custom brokerage, marketing United States products abroad. Tuition: \$9 plus fees for housing, food service, and supplies.

School of Advanced Cosmetology, July 16–29. A two-week school, held in co-operation with the Illinois Hairdressers and Cosmetologists Association, is for owners and operators of beauty salons to learn the latest techniques and methods in chemistry of cosmetics, physics of hair, contest work in hairstyling, makeup, salon management, time and motion study, advertising, art, and color design; all to produce higher profits. Housing and food service available.

Illinois Banker's School for Development of Junior Executives, July 30–August 11. This two-week school, held in co-operation with the Illinois Banker's Association each year, is open to employees of banks. Its purpose is to provide techniques and latest methods, among which are bank operation, trusts, Federal Reserve, farm and commercial credit.

Transportation Sales, September 7–9. This course is designed and offered for sales management and sales supervisory staff of all modes of transportation: rail, water, air, and motor carrier. Factors included are producing more sales, responsibility of sales volume, individual effort in sales work, cost of selling, and new means of effort in sales. The course is offered in co-operation with the Transportation Institute. Tuition: \$5 plus fees for housing, food services, and supplies.

Restaurant and Drive-In Management, September 11, 12. Through co-operation with the Illinois and St. Louis restaurant associations, this program is offered in the month of September. Designed for owners, managers, operators, and supervisors, this program includes study of cost factors of purchasing, menu planning, and serving. It emphasizes decorating and arrangement of food service establishment. Study of the credit card business also is included.

Hot Line Maintenance, June 19–23, June 26–30, July 10–14, July 17–21. The goal of this short course is to acquaint electric co-operative personnel with new equipment being introduced in their lines and to enable them to effectively advise members on proper and efficient installations and use of such new equipment.

Lectures and Conferences

Each summer, as well as during the regular school year, various departments schedule conferences, lectures, exhibits, or clinics in co-operation with the Division of University Extension. Several such activities have been scheduled during the 1961 Summer Session. A partial list of those that will be of particular interest to summer school students is provided below.

Annual Coaching Clinic, August 23, 24. Distinguished coaches in both football and basketball present lectures and demonstrations of the principles and techniques applicable to their sport. All Illinois coaches and Southern Illinois University graduates are invited to attend without charge. A small fee is charged other coaches. Additional information is available from Dr. Andrew Vaughn, Department of Physical Education for Men.

Educational Materials Exhibit, June 27–29. This is considered one of the outstanding exhibits of educational materials held in the midwest. Representatives of approximately one hundred publishers and distributors of educational materials will be available to explain their products. For further information contact Dr. Benson B. Poirier, Assistant Dean, Division of University Extension.

Individualized Patient Care, June 26–July 1. A work conference dealing with patient care in nursing is sponsored by the Department of Nursing. It will be conducted by Miss Catherine R. Nelson, Division of Nursing Education, Teachers College, Columbia University. Sessions will be held daily from 7:30 to 3:30 in the auditorium of Morris Library. Enrollment is limited to sixty persons. The registration fee of \$25 must be paid at the time of enrollment. For further information write to Miss Virginia Harrison, Chairman, Department of Nursing.

Magazine Publishers Workshop, June 18–30. This workshop will deal with all phases of magazine publishing. It will be directed by Aron Mathieu, nationally known magazine publisher and founder of *Farm Quarterly*. Enrollment is limited to sixty persons. For further information write to Dr. Howard R. Long, Chairman, Department of Journalism.

Summer Education Conference, June 28, 29. In connection with the Educational Materials Exhibit, the College of Education sponsors a conference dealing with current educational problems. Noted authorities are in attendance to discuss and investigate the various aspects presented by the problems. In 1961 the conference theme will be Integration of Instructional Materials. Additional information can be obtained from Dr. John Mees, University School.

Weekly Newspaper Management Workshop, July 2-8. The whole range of activities in publishing weekly newspapers, circulation, production problems, advertising, etc., will be covered. The workshop will be directed by Mr. Robert Shaw, School of Journalism, University of Washington, and Assistant Director, Washington Newspaper Publishers Association. Mr. Shaw is a specialist in the publishing of weekly newspapers. Enrollment is limited to sixty persons. Additional information can be obtained from Dr. Howard R. Long, Chairman, Department of Journalism.

Programs for High School Students

National Science Foundation Programs

The following special courses for junior and senior high school students of high ability will be offered during the summer session:

Unit 1	Mathematics and Physics	June 19 to June 30
Unit 2	Physiology and Microbiology	June 19 to June 30
Unit 3	Chemistry and Mathematics	July 10 to July 21
Unit 4	Physiology and Physical Anthropology	July 10 to July 21
Unit 5	Chemistry and Microbiology	July 24 to August 4
Unit 6	Geography and Geology	July 24 to August 4
Unit 7	Botany and Zoology	July 24 to August 4

These courses are designed for scholarship winners and other students in the upper quarter of their classes. Courses will be offered in units of related subjects with each course in a unit scheduled for two weeks with one morning and one afternoon session in each unit. A student will register for one unit of work.

There are no tuition charges, and no credit is given. The National Science Foundation is supporting this program. Board, room, and travel will be awarded to a limited number of participants on the basis of need.

Participants showing special ability will be given the opportunity to remain an extra week or more and assist a research staff member in some phase of his research work.

Courses are open to high school students who are juniors or seniors in the spring of 1961. Application forms may be obtained from your high school or

by writing to Dr. Howard G. Applegate, Department of Botany, Southern Illinois University, Carbondale, Illinois.

Summer High School Workshops

During the summer of 1961, Southern Illinois University will conduct its fifth annual Summer High School Workshop program. The 1961 program will consist of workshops in the following areas: journalism, radio and television, debate and drama. The workshops are open to superior high school students who are currently in their sophomore or junior years. The workshops will run, concurrently, for a period of four weeks beginning July 2. High school students will live in university-supervised residence halls. Each of the workshops is designed to provide an enriching experience for high school students interested in communications. The students who attend should be those who will return to their schools with attitudes and skills which make for better high school programs.

In the *journalism* workshop, students will learn how to produce better school newspapers and yearbooks. They will receive training in photography under the directions of instructors from the Department of Printing and Photography. Journalism students will write and edit four issues of a workshop newspaper and a publication similar to a yearbook. In the last part of the workshop period they will also be given writing assignments for *The Egyptian*, Southern's student newspaper.

The *debate* students study and prepare cases in the problem area of the national high school debate proposition. In this workshop, experiences are also provided in oratory, extemporaneous speaking, discussion, and after-dinner speaking.

The *drama* workshop consists of work in technical theater, staging, acting, and production with emphasis on training the individual through the use of monologues, excerpts from plays, and other presentational activities.

The *radio and television* workshop will provide experiences in announcing, programming, writing, and producing radio shows. Students in this workshop will use the University's radio-television facilities. Some experience will be offered in television production.

A social program of swimming, field trips, dances, horseback riding, plays, and operettas is also provided.

For further information concerning any of the workshops write to Mr. Marlan D. Nelson, Summer School High School Workshop Co-ordinator, Department of Journalism, Southern Illinois University, Carbondale, Illinois.

2 / General Information Concerning the University

THE GENERAL administrative offices for the University's campuses at Carbondale, Southern Acres, and Little Grassy Lake are located at Carbondale. The Southwestern Illinois Campus, which is the administrative office for the Alton and the East St. Louis campuses, is located at Edwardsville.

The facilities at Carbondale now include more than twenty-three hundred acres of land, thirty-six permanent buildings, and numerous temporary buildings. These buildings house classrooms, auditoriums, laboratories, libraries, offices, living quarters, cafeterias, and farm equipment and animals. The Little Grassy Lake and Southern Acres campuses are each about ten miles from Carbondale.

The facilities of the former Shurtleff College have been leased by the University for the operation of the Alton campus. The East St. Louis campus is located at the former East St. Louis High School building.

UNIVERSITY LIBRARIES

The university library system consists of four subject libraries (Education, Humanities, Science, and Social Studies), an Audio-Visual Department, and a Textbook Rental Service, all housed in Morris Library. There are also branch libraries in the University School, the Vocational-Technical Institute, Little Grassy Camp, and at the centers at Alton and East St. Louis.

Morris Library on the Carbondale Campus contains some 400,000 volumes plus a collection of 70,000 maps, 2,000 phonograph records, 3,500 films, and a curriculum collection of some 10,000 items. With the exception of a small collection of rare books, the entire book collection is arranged in "open stacks."

Morris Library provides a lounge for informal study and for reading current newspapers and periodicals of a general nature. Graduate students have a special study area and locker facilities. Group study areas are provided in each subject library. A browsing room, furnished informally, contains books of current information in many fields. Individual and group listening rooms permit stu-

dents to use the record collection. Preview rooms in the Audio-Visual Department provide for individual and group viewing of films.

Facilities for use of microtext are also provided. The library staff is prepared to assist students in locating books and other materials and in giving instruction in the use of bibliographic tools.

The library collection is particularly strong in American and English history and literature, education, the biological sciences, in modern social, political, and economic affairs.



MORRIS
LIBRARY

The University is one of eighteen members of the Human Relations Area Files, a major source of research findings in the behavioral sciences. The files, housed in the Social Studies Library, consist of more than one and one-half million documents relating to 170 world cultures.

As part of the services of the university library system, a textbook rental system is operated for the benefit of students. Each quarter, students are furnished with the basic textbooks required for their courses. The books are returned at the end of the quarter, but students interested in purchasing any of them for their personal libraries may do so at reduced costs.

HEALTH SERVICE

The primary purpose of the Health Service is to cultivate in students both physical and emotional health.

To serve this purpose the University maintains a well qualified staff of physicians, nurses, and technicians which serves a large and active out-patient clinic. Any student enrolled in the University may consult the Health Service, free of charge, for any illness or related problem that he or she may have and receive indicated diagnostic workups and treatment. Diagnostic and treatment equipment include a modern laboratory, X-ray department, physical therapy unit, and

in some instances referral to area specialists for more detailed diagnostic or treatment procedures.

The Health Service maintains a modern pharmacy where students may purchase necessary drugs or medications on a cost basis on prescription from a University physician.

A well qualified psychiatrist is on the medical staff, rendering consultative and treatment services for emotional upsets and illnesses that may occur.

Other services include the maintenance of immunization programs for polio, typhoid, diphtheria, tetanus, and smallpox, without charge to students.

Detailed information concerning hospitalization, the maintenance of a Student Medical Benefit Fund, and procedures to be followed in the event of illness or accident may be obtained from the Health Service.

STUDENT WORK PROGRAM

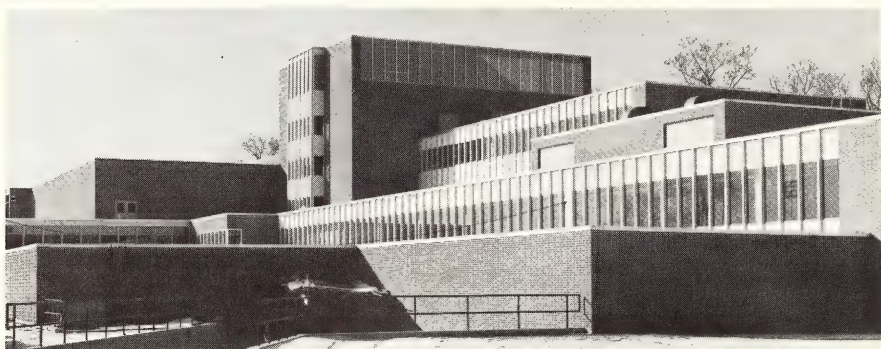
The Student Work Office assists students in obtaining part-time work to defray a portion of their educational expenses while attending Southern. The Student Work Office is a referral agency and cannot promise jobs to students. However, every effort is made to place students with financial need in either on-campus or off-campus jobs. Inquiries relative to student employment should be addressed to the Student Work Office.

RECREATION

Carbondale is situated in a natural recreation area affording many summertime recreational opportunities. Giant City State Park is a popular picnic resort ten miles to the south of Carbondale. Excellent swimming, boating, fishing, and picnic facilities are available at the Campus Lake as well as at Crab Orchard Lake, Little Grassy Lake, and Lake Murphysboro, all within ten miles of Carbondale.



The beach and beach house at CAMPUS LAKE



A variety of activities will be available at the new UNIVERSITY CENTER.

The University gives attention to the students' recreation and entertainment needs. During the summer session, group trips are planned to attend the St. Louis Municipal Opera and to visit various historical sites in Southern Illinois. Swimming and intramural recreation programs are sponsored by the physical education departments. Outdoor square-dancing programs are available. Weekly free movies, this year to be on Wednesday nights, are provided by Audio-Visual Services. All of these programs are designed to provide suitable outlets for the students' recreational entertainment needs.

Educational opportunities other than those provided through course-work are also available. Special educational conferences permit students to participate in open sessions. Informal social hours are planned in order for students and faculty to become better acquainted. Constantly changing exhibitions are provided by the Department of Art in the Allyn Gallery and by the University Museum in Altgeld Hall.

The Department of Theater, which has in past summers conducted a summer stock company in the Shepherd of the Hills Theater, Branson, Missouri, and in the New Salem State Park near Springfield, Illinois will bring the company to Carbondale again this summer. In the air-conditioned Playhouse the company will present five plays and, in co-operation with the Department of Music, a musical comedy in Shryock Auditorium.

MOTOR VEHICLES

All motor vehicles owned or operated by students must be registered at the Office of Student Affairs.

Undergraduate students are not permitted motor vehicle driving privileges. However, a student may petition to the Office of Student Affairs to be classified as an exception to the rule.

3 / Housing

IN HOUSING students, the University is responsible for developing and operating facilities to provide excellent food, comfortable and usable study and sleeping facilities, and adequate counseling and referral services. Beyond that, Southern is experimenting with ways to fuse the experience of living with the learning that must go on in higher education.

Assignments to university residences are made on a first-come, first-served basis. The exception to this is that a few spaces are reserved for some students from other countries and students receiving rehabilitation aid.

Contracts for housing are issued only to students who have been admitted to the University, but admission to the University *does not guarantee* that housing will be available.

The rates charged by the University for various housing units are established on the basis of current costs, and a sincere effort is made to keep these costs at a minimum. However, all rates for university housing are subject to change from time to time.

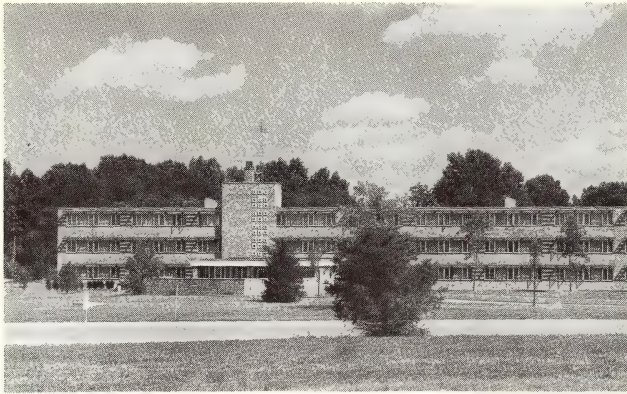
UNIVERSITY HOUSING FOR UNMARRIED STUDENTS

Thompson Point

Two residence halls at Thompson Point are available for men during the summer session. The cost for room and twenty meals per week is \$148. Non-residents may contract for board only at a cost of \$106 for the session. The student government also collects \$2 dues for social events.

Woody Hall

A portion of Woody Hall is set aside for the residence of women during the summer session. The cost is \$148, which covers housing for the session and twenty meals per week. Nonresidents may contract for board only at a cost of \$106 for the session. The student government also collects \$2 dues for social events.



THOMPSON
POINT RESIDENCE
HALLS *stand on
the banks of
Campus Lake.*

Co-operative Housing

A limited number of co-operative housing facilities for men are available at Southern Acres, ten miles east of the Carbondale campus. These facilities allow the residents to provide their own meals and to do their own janitorial maintenance. Rent for the entire session is \$34.

UNIVERSITY HOUSING FOR MARRIED STUDENTS

Southern Hills Apartments

These facilities are the first permanent accommodations for married students to be provided by the University. Three types of apartments are available in this area: two bedroom, one bedroom, and efficiency. All Southern Hills Apartments are furnished. The rental rate for an apartment varies from \$60 to \$75 per month plus a \$15 service-utility charge.

Southern Acres Apartments

Residential facilities for married students are provided at Southern Acres. These units are temporary buildings, and the apartments range in size from one to three bedrooms. All Southern Acres Apartments are unfurnished with the exception of an electric stove. The rental rate for an apartment varies from \$36.50 to \$46.50 per month including utilities.

Chautauqua Street Apartments

A number of unfurnished Chautauqua Apartments may be available adjacent to

the main campus. The rent varies from \$42.50 to \$52.50 per month with a gas stove and utilities included.

OFF-CAMPUS HOUSING

The University also attempts to provide information on off-campus housing facilities. Lists of vacancies for single and married students are available in the Housing Office. Vacancies listed by the Housing Office are classified as approved and nonapproved university housing. Those units which are approved must meet minimum sanitation and safety standards as established by the University. Signed contracts with householders are often required. It is suggested that renting by mail may not prove satisfactory.

Few off-campus housing areas offer meals. Meals may be obtained in cafeterias or restaurants on or off campus. Among the listings of off-campus facilities in the Housing Office are those of organized houses which elect officers and carry on group activities.

4 / Admission and Registration

ADMISSION

ALL INQUIRIES concerning admission to the University at Carbondale should be directed to the Admissions Office. Applications for the 1961 summer session should be made not later than May 15 so that the necessary work of processing may be completed.

Admission to Southern constitutes admission to a particular college or instructional unit except in the case of a person who is admitted as an unclassified student.

Freshman Students

To be eligible for admission, a person must be either a graduate of a recognized high school, at least twenty-one years of age, or a military veteran. A person twenty-one years of age and not a high school graduate is required to pass the General Educational Development Test during the first period of attendance at Southern. A military veteran who is neither a graduate of a recognized high school nor at least twenty-one years of age may qualify for admission by passing the G.E.D. Test.

A high school senior who ranks in the upper three-fourths of his graduating class will be admitted at the close of his seventh semester, subject to the successful completion of his high school work.

A student who has graduated from an approved secondary school, and who ranks in the lowest fourth of his graduating class, will be permitted to enter (on scholastic probation) for the summer session. A student in this category must register for more than six hours during the summer session.

A student with no previous college work, who is admitted to the summer session on scholastic probation, may continue during the fall quarter provided he earns a "C" average or above during the summer.

All new students at Southern Illinois University must take the Guidance Test Battery. Information about the testing dates is sent to students inquiring about admission. In addition, all students are encouraged to take the American College Testing Examination. Information about the dates of these examinations may be had through the high school principal or guidance director.

Transfer Students

To be considered for admission to advanced standing, a student who has attended other colleges or universities must present a transcript of his previous academic work from each college and university attended. The only exception to this regulation is for the student who plans to attend Southern only during the summer session. Such a student will be admitted on the basis of a letter of good standing from the registrar of the institution the student last attended.

All transfer students are subject to the University's scholarship rules. A transfer student who is not in good scholastic standing under our scholarship rules may enter (on scholastic probation) the summer, winter, or spring quarters only, subject to the approval of the appropriate academic dean. A transfer student suspended for poor scholarship from the last institution attended who would also have been suspended under Southern's scholarship rules is not eligible for admission until at least one quarter has elapsed from the date of suspension. A transfer student suspended for any reason other than academic failure must be cleared by the Office of Student Affairs before admission will be granted.

All transfer students must take the Guidance Test Battery or submit to the Testing Service the results of such tests taken at other institutions.

Former Students of Southern

A former student of Southern, not in attendance on the Carbondale Campus at the close of the quarter preceding application for re-admission, must apply to the Admissions Office for re-entrance clearance. A student who attended the 1960 summer session and was in good standing at the close of the session need not apply for re-entrance clearance prior to registration for the 1961 summer session.

A former student who is not in good standing must clear his status before the Admissions Office will prepare his registration permit. It is advisable for such a student to initiate re-entrance clearance early so that all inquiries may be answered and so that the applicant can find time to satisfy any requirements that may be imposed upon him.

A former student who has attended another college or university since leaving Southern must present either an official transcript of such work or a letter from his registrar showing that he is in good academic standing.

Unclassified Students

A mature person, not a degree student at Southern or at any other institution,

who wishes to register for particular courses offered in any of the departments of the University may be admitted as an unclassified student. Such a student must present satisfactory evidence that he is prepared to take advantageously the work required.

Application for admission as an unclassified student should be made at the Admissions Office. Every such student must sign a statement indicating that he is not a degree student and that credit received cannot be applied toward a degree at this University while he is enrolled as an unclassified student.

A person desiring to register for only one or two courses may do so in the Admissions Office. A person desiring to take more than two courses is referred to the regular academic adviser for unclassified students. A person who has already received a bachelor's degree and wishes to register as an unclassified student is referred to the Graduate School for registration.

Graduate Students

Any qualified student may apply for admission to the Graduate School any time during the calendar year. Application forms may be obtained from the Admissions Office. Admission to the Graduate School will not be granted until complete transcripts of all previous college work are on file in the Admissions Office. Transcripts must reach the Admissions Office at least one month prior to the time the applicant expects to enter Southern in the case of one seeking the master's degree, and four months for one whose aim is the doctorate.

A student who wishes to enter the Graduate School immediately after graduation may submit, during the final quarter or semester of undergraduate work, a transcript showing the courses he is taking, together with a statement from his registrar that graduation will follow successful completion of his current enrollment.

An undergraduate student who is within one quarter's work (sixteen hours) of meeting requirements for the bachelor's degree may take courses for graduate credit by applying for admission to the Graduate School and obtaining approval for the proposed major from the departmental chairman. An undergraduate student who takes courses for graduate credit must obtain the approval of the dean of the Graduate School at the time of registration.

A student who holds the bachelor's degree and who does not wish to become a candidate for a higher degree or for another bachelor's degree but who wishes to take work in the University should apply for admission as an unclassified graduate student.

Admission to the First Year of Graduate Study is a two-part process. The first step is admission to the Graduate School; the second is approval for a particular department or major. (See Admission to Full Graduate Standing.)

Unconditional admission to the Graduate School for the first year of graduate study is granted to graduates of fully accredited colleges and universities whose undergraduate averages are equivalent to 3.2 or above on a 5-point grading scale. Grades for previous graduate work must be "B" or above.

Graduates of institutions of limited accreditation who have 3.2 or above may be granted conditional admission, depending upon the merits of the institution concerned.

Admission to Advanced Graduate Study is a two-part process. The first step is admission to the Graduate School; the second is approval for a particular department or major. (See Admission to Full Graduate Standing.)

Admission to the Sixth-Year Specialist's Certificate program is based on the applicant's previous academic record, his educational experience, and his proposed goal.

Unconditional admission to the Graduate School on the advanced graduate level is granted to any student who holds an approved master's degree and whose average in graduate work is equivalent to 4.5 or above on a 5-point grading scale.

Conditional admission to the Graduate School on the advanced graduate level is granted to any student who holds an approved master's degree and whose average in graduate work is between 4.25 and 4.5 on a 5-point grading scale or the equivalent.

Admission to Full Graduate Standing. After admission to the Graduate School has been completed, the dean of the Graduate School initiates action for approval of the desired major. The departments are permitted two weeks in which to approve majors on the master's level, and ninety days on the doctoral level. The dean informs each student of the action taken by the departmental chairman and of any conditions which must be fulfilled before the major can be finally approved. Entrance examinations in the case of any student may be required prior to action by the proposed major department toward the applicant.

The student attains full graduate standing when he has fulfilled the stated conditions of his major department, has satisfied the English usage requirement of the Graduate School, and has completed any other general examination which may be required of graduate students.

REGISTRATION

The Carbondale Campus uses a central advisement and an advance registration system. The advance registration period for the 1961 summer session is from April 10 through June 2 and on June 15 and 16. Summer session students

should make every effort to consult their academic advisers and register during the advance registration period. Otherwise, they might not be able to secure needed, or desired, courses.

Initiation of Summer Registration

Undergraduate Students in attendance at Carbondale during the 1960 summer session or the 1961 spring quarter should initiate the registration process by reporting to the Academic Advisement Center, 1218 South Thompson Street. Off-campus students should write in advance for an appointment.

A student who has taken work from Southern (Carbondale Campus) either in residence or through extension but who was not in residence during the 1960 summer session or the 1961 spring quarter must contact the Admissions Office for clearance prior to registration.

A new undergraduate student must contact the Admissions Office to be admitted.

A student who is attending or has attended the Southwestern Illinois Campus (East St. Louis or Alton) and who wishes to enroll for the summer session at the Carbondale Campus, must submit to the Admissions Office in Carbondale either an official transcript showing all previous college work or a letter of good standing from the registrar at the Southwestern Illinois Campus. This must be done prior to admission and registration.

Graduate students should follow the procedure outlined above, except that graduate students who attended the Carbondale Campus during the 1960 summer session or the 1961 spring quarter should initiate the registration process by reporting to the Graduate School Office, 309 West Mill Street.

Advisement

Academic advisers are available by appointment throughout the advance registration period, but June 15 and 16 and Saturday mornings are reserved for students who were not on campus during the 1961 spring quarter.

Sectioning

Following advisement, registrations are processed at the Sectioning Center, 1218 South Thompson Street. The Sectioning Center is open from 8:30 A.M. to 4:30 P.M., Monday through Friday, April 10 through June 2. Registration will also be processed until noon on Saturdays during this period and on June 15 and 16, for students who were not on campus during the 1961 spring quarter. On May 27 registrations will not be processed after 11:00 A.M.

Fees for the 1961 Summer Session

A student who registers by May 27 will receive his fee statement by mail. If his fees are not paid by 3:30 P.M., June 9, his advance registration will be canceled. Anyone who registers from May 29 through June 2 or on June 15, 16, or 19 must pay his fees at the time he registers.

REGULAR FEES

Tuition	\$31.50
Student Activity Fee	7.15
Student Union Building Fund Fee	5.00
Book Rental Fee	5.00
Total	<u>\$48.65</u>

SPECIAL FEES

Out-of-State Fee	\$37.50
Late Registration Fee—\$2.00 first day, \$1.00 increase each day to maximum of	5.00
Program Change Fee	2.00
Completion of an Incomplete Course Fee	1.00
Graduation Fee	17.00
Graduate Aptitude Test Fee	3.00
Graduate Student Matriculation Fee (For graduates of schools other than Southern)	5.00

Students attending under state teacher-education, military, or general-assembly scholarships are required to pay the Student Union Building Fund Fee and the Book Rental Fee. Veterans attending under Public Laws 16 and 894 are not required to pay any of the regular fees. Students attending under Public Law 550 are required to pay fees, both regular and special, and may not use military scholarships for waiving payment of any fees.

Students taking up to six hours, inclusive, pay one-half tuition, one-half out-of-state fee (if applicable), one-half book rental fee, and full student union building fund fee. Also, such students may elect to pay the student activity fee or not, depending upon their individual wishes.

Course Changes and Withdrawals from the University

A prescribed procedure must be followed by a student who desires to change his program or to withdraw from the University while the period for which he has registered is in progress. Failure to follow the official procedure will result in academic penalty.

No student may make a program change until he has paid his fees.

Program changes by an undergraduate student must be initiated with his academic adviser. Changes by a graduate student must be approved by the chairman of the student's advisory committee and the dean of the Graduate School. Program changes may be made after the student has paid his fees, but no changes will be accepted at the Sectioning Center on June 19. Program changes made for reasons other than "for the convenience of the University" will carry a \$2 fee.

Official withdrawal from the University is initiated at the Office of Student Affairs. A student who officially withdraws on or before July 1 may obtain a full refund of fees provided his application for a refund is submitted to the Registrar's Office not later than July 3. Otherwise, no refund is permitted.

Unit of Credit

The *quarter hour* is the unit of credit used at Southern and throughout this bulletin. One quarter hour is equivalent to two-thirds of a semester hour.

Academic Load

The normal academic load for the eight-week session is ten to twelve hours. A student with special needs may, by permission of the dean of his academic unit, take a maximum of fourteen hours. A student on probation may not register for more than ten hours. A student is considered a full-time student during the summer session if he carries eight or more hours.

Class Periods

Each summer session class period is seventy-five minutes in length. Ten minutes are allowed between consecutive class periods. The schedule of summer session class periods follows.

PERIOD	C.D.T.	PERIOD	C.D.T.
1	7:30-8:45	4	11:45-1:00
2	8:55-10:10	5	1:10-2:25
3	10:20-11:35	6	2:35-3:50

Grading System

Letter grades are interpreted as follows:

GRADE POINTS PER HOUR

A, Excellent	5
B, Good	4
C, Satisfactory (This is intended to be the average grade.)	3

D, Poor, but passing	2
E, Failure; all work completed including final examination, but failed	1
W, Course not completed; includes incomplete records of all kinds (except deferred for graduate students)	0-5

A grade submitted at the end of a course is final and may not be raised by additional work.

Any student who withdraws from a course without following the prescribed procedure receives a grade of "W-E" in the course regardless of when the withdrawal occurs. An official withdrawal for a course is initiated with the student's academic adviser.

A course from which a student officially withdraws during the first three weeks is not shown on his academic record. A withdrawal after the first three weeks is shown on his record as a "W" followed by a number which indicates the week of the official withdrawal. In the case of an undergraduate student the grade which he was making at the time of withdrawal is also indicated (for example W4B). Exceptions to the above rules may be permitted for unusual circumstances but only through written approval of the student's academic dean. A graduate student may receive a grade for a course from which he officially withdraws after the third week at the discretion of the instructor.

Any change of grade, as upon the completion of a "W," must be reported within a year after the close of the session in which the course was taken. A fee of one dollar is charged for completion of a course marked "W," unless the fee is waived on recommendation of a university physician.

A student who, for any reason, must miss the final examination may not take an examination before the one scheduled for the class. In this case a "W-8" with a grade is recorded by the instructor. The final examination may be given at a later date, within one year. A complete record of all changes in grades will appear on the official transcript.

Requirements for the Bachelor's Degree

Each candidate for the degree must complete a minimum of 192 hours of credit in approved courses. At least 64 must be in senior college courses, of which 48 must be earned at Southern, 16 of which may be earned in extension from Southern. Each student must have a "C" average, and grades not lower than "C" in subjects aggregating at least three-fourths of the work. A "C" average is required in the major subject. These averages are required for the credit made at Southern as well as for the total record.

The following requirements should be met by all degree candidates of the University within the first two years of attendance.

REQUIREMENTS	HOURS	COURSES
Social Studies	20	Economics 205, Geography 100, Government 101, History 101, 102, 103, Sociology 101 (work in four of the five departments)
Humanities	18	
English	(9)	English 101, 102, 103
English	(6)	English 205, 206, 209, 211, 212
Art or Music	(3)	Art 120, Music 100
Biological Sciences	9	
Health Education	(4)	Health Education 100
Botany or Zoology	(5)	Botany 101, 202, Zoology 100
Mathematics and		
Physical Sciences	12	Chemistry, physics, and mathematics (work in two of the three departments)
Practical Arts and		
Crafts	3	Agriculture, business administration, home economics, industrial education (not required if the student has had any of this work in high school)
Physical Education	6	Activity courses
Air Science	3	Air Science 110, 210, 220, six quarters of leadership laboratory, and three elective courses must be satisfactorily completed before this requirement is fulfilled.
(Men only)		
TOTAL	71	

5 / Map of Carbondale Campus

THE MAP on pages 38 and 39 has been prepared primarily to help students find classrooms, offices, and housing.

Legend

Abbreviations for buildings in which classes are held are listed alphabetically on page 54, along with the corresponding names and numbers. The following legend lists buildings alphabetically and numerically.

Alphabetical List of Buildings

Buildings listed below are arranged alphabetically in five categories: (1) classrooms and offices, (2) state building, (3) religious foundations, (4) housing, (5) services.

CLASSROOMS AND OFFICES

T35	Admissions Office (H-6)	T15	Extension Division (F-7)
T15	Administrative Deans (F-7)	T17	Faculty Secretary (F-6)
T65	Advisement Center & Sectioning (H-5)	T115	Film Development Unit (N-4)
26	Agriculture Building (I-4)	T86	General Publications (D-10)
T29	Agriculture Shop (G-4)	T105	Geography (Climatology Research) (K-3)
3	Allyn Building (G-6)	T106	Geography (Mississippi Valley Investigations, Cartography) (K-3)
2	Allgeld Hall (I-7)	T119	Geology (L-3)
T14	Alumni Office (E-6)	T107	Geology (L-3)
18	Animal Building (J-4)	T137	Government and Local Gov't Center (M-8)
5	Anthony Hall (F-7)	T77	Graduate School (N-8)
T97	Anthropology Department (P-5)	19	Greenhouses (J-4)
57	Applied Science Laboratories (B-5)	T74	Guidance Department (M-4)
T46	Area Services (Conference House) (E-6)	7	Gymnasium (E-7)
T116	Asian Studies Office (P-5)	T16	Health Education (F-6)
T94	Botany and Zoology (L-4)	T85	Health & Safety Education (E-10)
T32	Business School (G-5)	T44	Health Service (B-8)
T34	Bursar & Auditor (H-6)	T98	Health Service (B-9)
T33	Business Manager & Accountant (G-6)	42	Home Economics Building (I-8)
T39	Cafeteria (H-6)	T113	Housing Center (C-10)
T66	Central Clinical Services (L-4)	T25	Housing Center (C-10)
T99	Central Research Shop (N-4)	T26	Industrial Education (Applied Science) (F-4)
T85	Civil Defense (E-10)	T27	Industrial Education (Applied Science) (F-4)
T127	Community Development (L-3)	T87	Industrial Education (Applied Science) (D-10)
T140	Community Development (L-4)	T134	Information Service (M-4)
T20	Computing Center (G-6)	T81	Isotope Research (O-4)
T100	Coordinator of Research (P-4)	T48	Journalism and Egyptian (G-4)
T125	Design Department (L-3)	T124	Labor Institute (O-4)
T126	Design Department (L-3)	T92	Latin American Institute (B-9)
T128	Design Department (L-3)	17	Life Science Building (K-4)
T129	Design Department (L-3)	T138	Management Department (O-4)
T31	Economics Department (H-5)	T109	Marketing Department (M-5)
T40	Education Classes, Offices (J-6)	T110	Mathematics Department (P-6)
T41	Education Classes, Offices (J-6)	T111	Mathematics Department (P-6)
T42	Education Classes, Offices (J-6)	T96	Mentally Retarded Program (O-4)
T108	Education (Secondary & Higher) (L-5)	13	McAndrew Stadium (E-6)
T130	Education College Dean's Office (N-5)	25	Morris Library (J-5)
T136	English Department Offices (L-8)	1	Old Main Building (G-7)
T91	English Department Offices (O-7)	4	Parkinson Building (G-6)
T102	English Department Offices (L-8)	T90	Perception Research (Rehabilitation) (O-4)

Alphabetical List of Buildings (Continued)

T13	Personnel Office (E-7)
T27	Photography and Printing Dept. (F-4)
T132	Photographic Service (C-9)
T76	Physical Education & Research (N-8)
T58	Physical Education (F-8)
T120	Plan "A" House (E-4)
T34	Placement Service (H-6)
T36	Playhouse (H-6)
T18	Post Office (F-6)
T45	President's Office (I-6)
T122	Psychology Graduate Lounge (M-4)
T68	Psychology Offices & Classes (M-4)
T69	Psychology Offices & Classes (M-4)
T70	Psychology Offices & Classes (M-4)
T71	Psychology Offices & Classes (M-4)
T73	Psychology (Industrial) (N-4)
T60	Psychology Offices (M-4)
T95	Psychology & Nursery (L-3)
T33	Purchasing Office (G-6)
T37	Radio Studios & Classes (H-6)
T108	Reading Center (L-5)
T84	Recreation & Outdoor Education (E-10)
T35	Registrar's Office (H-6)
T62	Rehabilitation Institute (M-4)
T93	Rehabilitation Institute (M-4)
T103	Rehabilitation Institute (M-4)
6	Shryack Auditorium (H-6)
T80	Small Business Institute (P-5)
T121	Sociology Department (O-7)
T104	Sociology Department (O-7)
T79	Sociology Department (O-7)
T75	Special Education Department (M-4)
T38	Speech Department (H-6)
T61	Speech & Hearing Clinic (M-4)
T35	Statistical Service (H-6)
T82	Stenographic Service (K-8)
T19	Student Affairs Offices (F-6)
T18	Student Union (F-6)
T15	Student Work Office (E-6)
T17	Testing Service (F-6)
T78	Technical & Adult Education Office (N-8)
45	University Center (under construction) (F-5)
T117	University Press (I-4) (N-4)
23	University School (L-7)
21	University School (Ind. Edu. wing) (L-6)
T63	University Store (G-8)
22	University Swimming Pool (M-6)
83	Vice President's Office, Carbondale Campus (I-8)
8	Wheeler Hall (H-7)
T67	Wildlife Research (L-4)

STATE BUILDINGS

S1	Illinois Public Health Laboratory (M-3)
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RELIGIOUS FOUNDATIONS

R1	Baptist Foundation (Southern) (J-6)
R2	Baptist Foundation (Southern) (N-5)
R5	Episcopal Foundation (O-8)
R3	Student Christian Foundation (H-9)
R4	Wesley Foundation (Methodist) (K-9)

HOUSING

H1-H33	Chautauqua Housing Area (K & L-3)
H49-H58	Chautauqua Housing Area (K & L-3)
H75	Group Housing (C-9)
T1-T9	Dowdell Halls (Men's Residence) (A-8 & 9)
113-114	Group Housing Units (L-2)
117-127	Southern Hills Family Housing (A-7)
T57	Illinois Avenue Residence Hall (J-9)
H36	President's Home (J-6)
27-34	Thompson Point Residence Area (I-3)
27	Lentz Hall (Student Service Center) (J-3)
28	Bailey Hall (I-3)
29	Pierce Hall (I-3)
31	Bowyer Hall (H-3)
32	Steagall Hall (I-3)
33	Brown Hall (I-3)
34	Felts Hall (I-3)
205	Trailer Park (A-10)
24	Woody Hall (Women Students) (J-7)
H74	University Avenue Residence Hall (L-9)
H37	University Courts (K-9)

SERVICES

79	Beach House (I-2)
T135	Faculty Club (E-5)
14	General Stores
56	Laundry (B-5)
14	Physical Plant (B-5)
14	Printing Service (B-5)
15	Physical Plant Garage (C-5)
12	Power Plant (B-5)
78	Shelter & Boat Dock (F-3)
204	Radio Transmitter (H-1)
14	University Architect

Numerical List of Buildings

Buildings listed below are arranged numerically in five categories. The letter preceding the number determines the category: (1) no letter, (2) the letter H, (3) the letter R, (4) the letter S, (5) the letter T.

NO LETTER

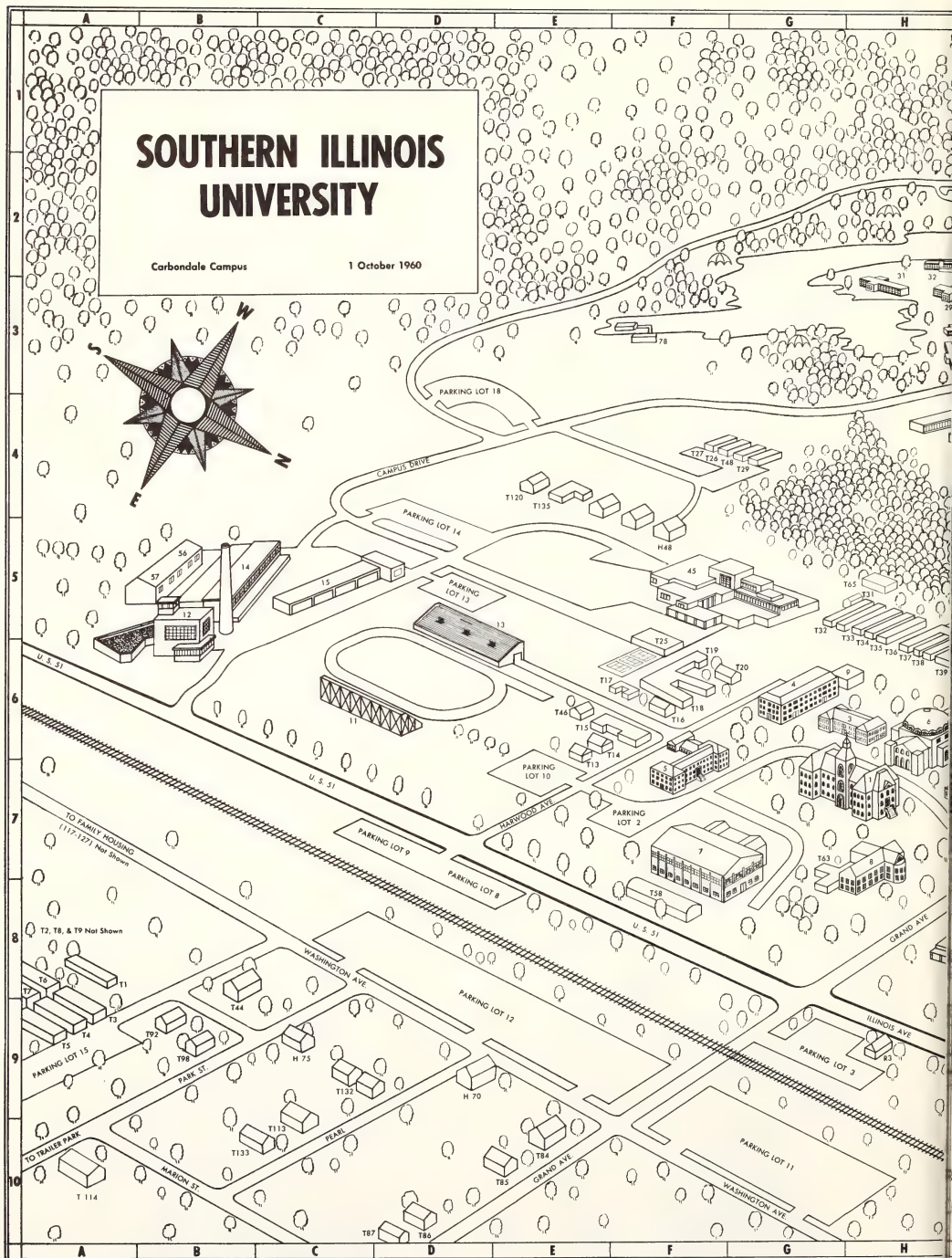
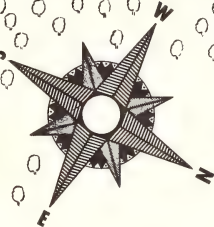
- Old Main (G-7)
- Altgeld Hall (I-7)
- Allyn Building (G-6)
- Parkinson Building (G-6)
- Anthony Hall (F-7)
- Shryack Auditorium (H-6)
- Gymnasium (E-7)
- Wheeler Hall (H-7)
- Browne Auditorium (G-6)
- Power Plant (B-5)
- McAndrew Stadium (E-6)
- General Stores, Physical Plant, Printing Service, University Architect (B-5)
- Physical Plant Garage (C-5)
- Life Science Building (K-4)
- Animal Building (J-4)
- Greenhouses (J-4)

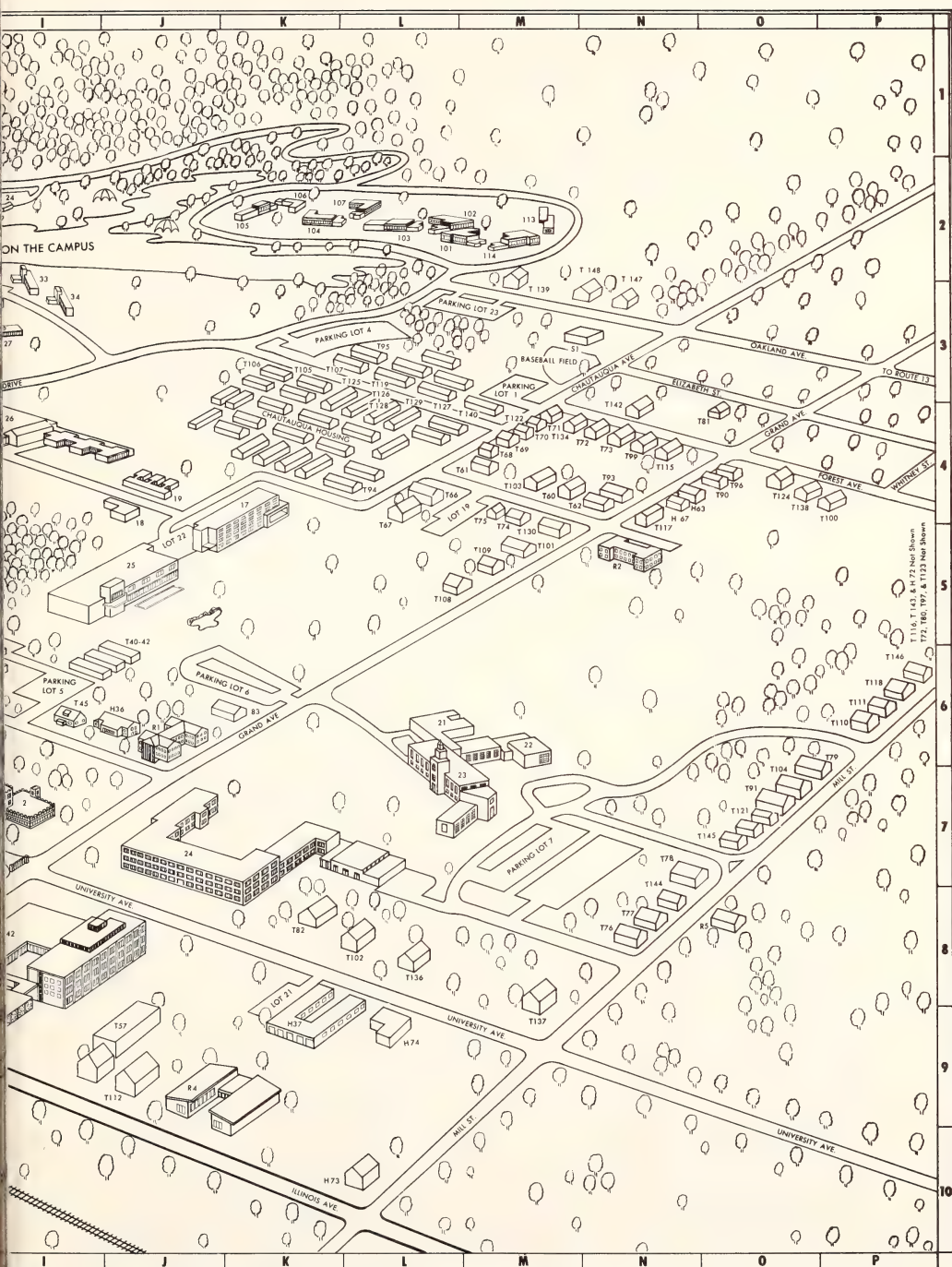
- University School (Industrial Education Wing) (L-6)
- University Swimming Pool (M-6)
- University School (L-7)
- Woody Hall (J-7)
- Morris Library (J-5)
- Agriculture Building (I-4)
- Lentz Hall (Student Service Center) (J-3)
- Bailey Hall (I-3)
- Pierce Hall (I-3)
- Bowyer Hall (H-3)
- Steagall Hall (I-3)
- Brown Hall (I-3)
- Felts Hall (I-3)
- Home Economics Building (I-8)
- University Center (F-5)
- Laundry (B-5)
- Applied Science Laboratories (B-5)
- Shelter & Boat Dock (F-3)
- Beach House (I-2)

SOUTHERN ILLINOIS UNIVERSITY

Carbondale Campus

1 October 1960





Numerical List of Buildings (Continued)

83. Vice-President's Office, Carbondale Campus (I-8)
 101-114. Group Housing (L-2)
 117-127. Southern Hills Family Housing (A-7)
 204. Radio Transmitter (H-1)
 205. Trailer Park (A-10)
- H**
- H1-H13. Chautauqua Housing (K & L-3)
 H36. President's Home (J-6)
 H37. University Courts (K-9)
 H-49-H58. Chautauqua Housing (K & L-3)
 H74. University Avenue Residence Hall (L-9)
 H75. Group Housing (C-9)
- R**
- R1. Baptist Foundation (J-6)
 R2. Baptist Foundation (N-5)
 R3. Student Christian Foundation (H-9)
 R4. Wesley Foundation (K-9)
 R5. Episcopal Foundation (O-8)
- S**
- S1. Illinois Public Health Laboratory (M-3)
- T**
- T1-T9. Dowdell Halls (Men's Residence) (A-8 & 9)
 T13. Personnel Office (E-7)
 T14. Alumni Office (E-6)
 T15. Administrative Deans, Extension Division,
 Student Work Office (F-7)
 T16. Health Education (F-6)
 T17. Faculty Secretary, Testing Service (F-6)
 T18. Post Office, Student Union (F-6)
 T19. Office of Student Affairs (F-6)
 T20. Computing Center (G-6)
 T25. Industrial Education Shops (F-6)
 T26. Industrial Education (Applied Science) (F-4)
 T27. Industrial Education (Applied Science),
 Printing & Photography (F-4)
 T29. Agriculture Shop (G-4)
 T31. Economics Department (H-5)
 T32. Business School (G-5)
 T33. Business Manager, Accountant, Purchasing Office (G-6)
 T34. Bursar, Auditor, Placement Service (H-6)
 T35. Admissions Office, Registrar's Office,
 Statistical Service (H-6)
 T36. Playhouse (H-6)
 T37. Radio Studios & Classes (H-6)
 T38. Speech Department (H-6)
 T39. Cafeteria (H-6)
 T40. Education Classes, Offices (J-6)
 T41. Education Classes, Offices (J-6)
 T42. Education Classes, Offices (J-6)
 T44. Health Service (B-8)
 T45. President's Office (I-6)
 T46. Area Services (Conference House) (E-6)
 T48. Journalism & Egyptian (G-4)
 T57. Illinois Avenue Residence Halls (J-9)
 T58. Physical Education (F-8)
 T60. Psychology Offices (M-4)
 T61. Speech & Hearing Clinic (M-4)
 T62. Rehabilitation Institute (M-4)
 T63. University Store (G-8)
- T65. Advisement Center & Sectioning (H-5)
 T66. Central Clinical Services (L-4)
 T67. Wildlife Research (L-4)
 T68-T71. Psychology Offices & Classes (M-4)
 T73. Psychology (Industrial) (N-4)
 T74. Guidance Department (M-4)
 T75. Special Education Department (M-4)
 T76. Physical Education & Research (N-8)
 T77. Graduate School (N-8)
 T78. Technical & Adult Education Office (N-8)
 T79. Sociology Department (O-7)
 T80. Small Business Institute (P-5)
 T81. Isotope Research (O-4)
 T82. Stenographic Service (K-8)
 T84. Recreation and Outdoor Education (E-10)
 T85. Civil Defense, Health & Safety Education (E-10)
 T86. General Publications (D-10)
 T87. Industrial Education (Applied Science) (D-10)
 T90. Perception Research (Rehabilitation) (O-4)
 T91. English Department Offices (O-7)
 T92. Latin American Institute (B-9)
 T93. Rehabilitation Institute (M-4)
 T94. Botany and Zoology (L-4)
 T95. Psychology & Nursery (L-3)
 T96. Mentally Retarded Program (O-4)
 T97. Anthropology Department (P-5)
 T98. Health Service (B-9)
 T99. Central Research Shop (N-4)
 T100. Co-ordinator of Research (P-4)
 T102. English Offices (L-8)
 T103. Rehabilitation Institute (M-4)
 T104. Sociology Department (O-7)
 T105. Geography (Climatology Research) (K-3)
 T106. Geography (Mississippi Valley Investigations,
 Cartography) (K-3)
 T107. Geology (L-3)
 T108. Education (Secondary and Higher), Reading Center (L-5)
 T109. Marketing Department (M-5)
 T110. Mathematics Department (P-6)
 T111. Mathematics Department (P-6)
 T113. Housing Center (C-10)
 T115. Film Development Unit (N-4)
 T116. Asian Studies Office (P-5)
 T117. University Press (I-4) (N-4)
 T119. Geology (L-3)
 T120. Plan "A" House (E-4)
 T121. Sociology Department (O-7)
 T122. Psychology Graduate Lounge (M-4)
 T124. Labor Institute (O-4)
 T125. Design Department (L-3)
 T126. Design Department (L-3)
 T127. Community Development (L-3)
 T128. Design Department (L-3)
 T129. Design Department (L-3)
 T130. Education College Dean's Office (N-5)
 T132. Photographic Service (C-9)
 T133. Housing Center (C-10)
 T134. Information Service (M-4)
 T135. Faculty Club (E-5)
 T136. English Department Offices (L-8)
 T137. Government & Local Government Center (M-8)
 T138. Management Department (O-4)
 T140. Community Development (L-4)

6 / Units of Instruction

THE GRADUATE SCHOOL

The Graduate School is the agency for organizing and supervising all graduate work of the University and for co-ordinating the organized research of the University. The school is administered by a dean, who is assisted by a graduate council.

Graduate Degrees

Graduate degrees are available in the following fields and departments:

1. Master of Arts.—anthropology, art, biological sciences, botany, chemistry, economics, English, French, geography, geology, German, government, history, inter-American studies, journalism, mathematics, microbiology, philosophy, physical sciences, physics, physiology, psychology, rehabilitation administration, rehabilitation counseling, sociology, Spanish, speech, speech correction, theater, and zoology;
2. Master of Fine Arts.—art;
3. Master of Music.—music;
4. Master of Music Education.—music;
5. Master of Science.—agricultural industries, agricultural services, animal industries, art, biological sciences, botany, business, design, economics, English, geography, geology, home economics, journalism, mathematics, microbiology, physical sciences, physics, physiology, plant industries, psychology, rehabilitation administration, rehabilitation counseling, sociology, speech correction, theater, and zoology;
6. Master of Science in Education.—art, biological sciences, chemistry, college student personnel work, educational administration, elementary education, English, French, German, guidance and counseling, health education, higher education, home economics, industrial arts, instructional materials, instructional supervision, kindergarten-primary education, mathematics, physical education, physical sciences, recreation and outdoor education, secondary education, secretarial and business education, social sciences, Spanish, special education, speech, speech correction, and theater;

7. Doctor of Philosophy.—anthropology, educational administration and supervision, elementary education, English, government, guidance, health education, microbiology, physical education, physiology, psychology, secondary education, sociology, speech, speech correction, and zoology.

Advisory Committee

Each student admitted to the Graduate School is assigned an adviser representing his major. The adviser assists the graduate student in planning his program of studies. As soon as the student has selected his thesis topic and thesis adviser, the latter is named chairman of the advisory committee.

Complete information about various graduate programs will be found in the Graduate School issue of the *Southern Illinois University Bulletin*. Copies may be obtained from General Publications.

COLLEGE OF LIBERAL ARTS AND SCIENCES

The College of Liberal Arts and Sciences serves the students in many capacities. Its course offerings provide (1) basic subject matter for the general education program; (2) opportunity for concentration in a major in any one of the seventeen academic departments administered by the college; (3) electives not available through other instructional units of the University; (4) extension and adult education offered through the appropriate divisions; (5) graduate-level instruction for students pursuing higher degrees than the baccalaureate; (6) pre-professional training needed for admission to such specialized schools as law, medicine, and dentistry.

The College of Liberal Arts and Sciences grants the Bachelor of Arts Degree. Each candidate for the degree must meet the following requirements:

Requirements for Graduation

1. General university requirements;
2. Four hours in philosophy or psychology;
3. A reading knowledge of a foreign language, which ordinarily requires nine hours of university study or its equivalent;
4. Proficiency in English, demonstrated by examination at the end of the junior year;
5. No departmental methods courses or student teaching may be counted in fulfillment of the degree requirements except as stated below;
6. A major of at least forty-two hours and a minor of at least twenty-four hours in the following subjects (some departments require more).

Anthropology	German	Philosophy
Art ¹	Government	Physics
Asian Studies ²	Greek	Physiology
Biology	Health Science	Psychology
Botany	History	Religion ²
Chemistry	Home Economics ¹	Russian Studies ²
Economics ¹	Language Arts	Social Studies
English	Latin	Sociology
French	Latin American Studies	Spanish
General Science	Mathematics	Speech ¹
Geography	Microbiology	Zoology
Geology	Music ¹	

¹ Liberal arts nonprofessional majors only

² Minors only

Pre-professional Courses

Students planning to take pre-dentistry, pre-law, pre-medicine, pre-medical technology, pre-public health, pre-pharmacy, pre-occupational therapy, pre-physical therapy, pre-theology, or pre-veterinary courses should register in the College of Liberal Arts and Sciences.

Limited High School Teaching Certificate

Students enrolled in the College of Liberal Arts and Sciences may meet Illinois requirements for a limited high school teaching certificate by using as their electives certain prescribed courses in the College of Education.

COLLEGE OF EDUCATION

The College of Education is for men and women who are already members of the teaching profession and for young people who intend to enter the field of teaching or of educational administration or some related field. One of its aims is to provide a fully rounded program of pre-service instruction and study; its undergraduate and graduate curricula are intended to prepare students for teaching in the elementary school, high school, and college, and for holding positions as school administrators, supervisors, and supervising teachers. Another of its aims is to provide an opportunity for in-service growth on a graduate or undergraduate basis as well as on a credit or noncredit basis. The course of study in the College of Education leads to the Bachelor of Science in Education or the Bachelor of Music Education degree.

General Requirements

All students in the College of Education must complete the general university requirements. No general requirement in foreign language applies to the College of Education. In certain departments, however, foreign language is required of majors in secondary education.

Majors and Minors

MAJORS FOR THOSE PLANNING TO TEACH IN ELEMENTARY SCHOOL

Art	Kindergarten-Primary Education
Elementary Education	Music
French	Spanish
German	Special Education (Mentally Retarded)
Health Education	Special Education (Physically Handicapped)
	Speech Correction

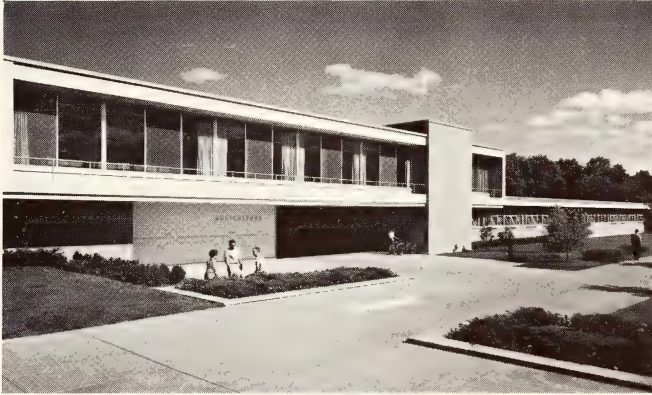
MAJORS FOR THOSE PLANNING TO TEACH IN HIGH SCHOOL

Art	Journalism
Biology	Language Arts
Botany	Latin
Chemistry	Mathematics
English	Music
French	Physical Education for Men
General Science	Physical Education for Women
German	Physics
Government	Recreation and Outdoor Education
Greek	Secretarial and Business Education
Health Education	Social Studies
Health and Physical Education	Spanish
History	Speech
Home Economics	Zoology
Industrial Arts	

SCHOOL OF AGRICULTURE

The School of Agriculture provides instruction, research, demonstration, and consultation in agriculture, forestry, and other activities directed toward the rural development of Southern Illinois. The school includes the departments of Agricultural Industries, Animal Industries, Forestry, and Plant Industries, which are the instructional units. The University Farms, Test Farms, Co-operative Agron-

omy Research Center, U.S.D.A. Co-operative Small Fruits Research Station, and the Illinois Horticultural Experiment Station are experimental and demonstrational units and also serve for teaching purposes. The U.S. Forest Service's Carbondale Forest Research Center and surrounding national and state forests are available to the Department of Forestry for teaching and research.



AGRICULTURE
BUILDING

A Bachelor of Science in Agriculture degree is available in general agriculture and in all departments of the school, including professional training in forestry. The school serves the needs of those desiring training for certification under the Smith-Hughes Act for teaching vocational agriculture, and of those desiring pre-veterinary training with a major in agriculture. It serves the needs of those wanting a four-year program leading to the Bachelor of Science in Education degree. The school provides a graduate program leading to a Master of Science in Agriculture degree.

Students working toward a Bachelor of Science in Agriculture degree must satisfy the general university requirements. Such students major in agriculture and are not required to carry a minor.

SCHOOL OF APPLIED SCIENCE

On July 1, 1959, the departments of Industrial Education and Applied Science were reorganized administratively to form the School of Applied Science. Both departments continue to function as before, each having its own curricula. At present these two departments plus the administrative offices make up the School of Applied Science.

Applied science embraces the fields of solid and fluid mechanics, civil architecture, and electricity. It places a considerable emphasis on technical subjects

and the physical sciences. It deals with power and design as used by the engineer. Many students who intend to transfer to engineering colleges will find it possible to use the curriculum as a pre-engineering program. Others may wish to complete the Bachelor of Science degree in applied science at Southern.

Each candidate for the Bachelor of Science degree must fulfill the general university requirements.

The Department of Industrial Education offers work leading to the Bachelor of Science degree with the following majors:

1. Industrial Arts.—for students preparing to teach industrial arts;
2. Trades and Industries.—for students preparing to teach industrial trades;
3. Manual Arts Therapy.—for students interested in becoming manual arts therapists;
4. Industrial Supervision.—for students interested in industrial science and supervision and preparing for supervisory positions in industry. In this the following options are available: industrial design, metal processing, industrial personnel, and industrial production planning;
5. Applied Science.

SCHOOL OF BUSINESS

The School of Business provides programs leading to the Bachelor of Science degree at the end of the four years in the following areas: accounting, economics, management (general, financial, personnel), marketing, and secretarial and business education. Students enrolled in the School of Business may also qualify for limited high school certificates by completing certain prescribed courses in the College of Education.

In addition to the general university requirements, graduates of the business program must take at least 40 per cent of their work in business and economics courses and at least 40 per cent in fields outside of business and economics.

Students in the School of Business are not required to have a minor. Where an intended major is not fully treated in the School of Business bulletin, the student should apply to the dean of the School of Business for a listing of the specific courses required of him.

SCHOOL OF COMMUNICATIONS

In the spring of 1955 the School of Communications was established to coordinate and facilitate the development of curricula, to provide instruction, and to stimulate research in the effective use of such communications media as pub-

lic speaking, television, radio, newspapers, and magazines, and to provide service work in this field for other educational units requiring it.

The school is composed of the departments of Printing and Photography, Journalism, Radio and Television, Speech, Speech Correction, and Theater. All departments offer the Bachelor of Science degree. Journalism and speech majors are offered for the Bachelor of Science in Education degree through the College of Education. The departments of Radio and Television, Speech Correction, and Theater co-operate on the offerings for this general speech major in the College of Education. A similar general speech major is offered in the College of Liberal Arts and Sciences, though technical courses in the specific fields may not be included in this major.

Students majoring in any of the departments of the school must meet all the general university requirements, as well as the specific requirements of the major field. Students preparing to teach either journalism or speech must meet the requirements for certification of the state and the College of Education.

SCHOOL OF FINE ARTS

The School of Fine Arts is composed of the departments of Art, Design, and Music. It grants the Bachelor of Arts degree for students majoring in art and design and the Bachelor of Music and the Bachelor of Music Education degrees for students majoring in music. Art and music majors are offered for the Bachelor of Arts and the Bachelor of Science in Education degrees through the College of Liberal Arts and Sciences and the College of Education.

SCHOOL OF HOME ECONOMICS

The School of Home Economics was established to provide instruction, to stimulate research, to provide service in this field for other educational units desiring it, and to give service to the people in the area in order to help in improving the understandings and practices in their families and homes.

The school is composed of the departments of Clothing and Textiles, Food and Nutrition, Home and Family, and Home Economics Education.

The purposes of the curricula in the School of Home Economics are to offer a general cultural program based on the needs of students enrolled in home economics, to educate for home and family life, and to provide the means for economic independence in professions related to the activities of the home.

The School of Home Economics offers curricula leading to the following degrees:

1. Bachelor of Science, for students in the School of Home Economics who



HOME ECONOMICS
BUILDING

wish to specialize in apparel design, clothing and textiles merchandising, dietetics, foods in business, home advisers (extension), homemaking, institution management, or interior decoration;

2. Bachelor of Science in Education, for students in the College of Education who wish to qualify for certification under the Smith-Hughes Act for teaching vocational homemaking;

3. Bachelor of Arts, for students in the College of Liberal Arts and Sciences who desire specialization in homemaking as a part of their general cultural education.

Each candidate for the Bachelor of Science degree in home economics must fulfill the general university requirements. Each curriculum provides a major field of concentration. A minor is not required.

DEPARTMENT OF NURSING

The Department of Nursing has one major purpose: to increase and improve nursing services, especially in Southern Illinois. It aims to prepare nurses for beginning positions in any field of nursing and to help them develop to their maximum capacity both personally and professionally. The Bachelor of Science degree is offered.

The basic professional curriculum is intended for those who have had no previous education for nursing. Covering a period of fourteen quarters (four academic years and two summers), students must complete all general university requirements, as well as the specific courses in the major field. The program is approved by the Department of Registration and Education and graduates are eligible for licensure as registered nurses. It is open to men and women.

Students who are weak in mathematics or English, or who wish to embark upon their university work immediately after graduation from high school, are urged to enroll in the summer session.

Applicants from the lower one-half of their high school class are not eligible for admission to the Department of Nursing until their average grade in college is "C" or above.

The supplemental program for registered nurses is open to graduates of diploma and associate-degree programs who are licensed to practice as professional nurses. In addition to the general education requirements, students must complete 64 hours of senior college credit, including the major in nursing. Credit for the diploma program is given on an individual basis.

DIVISION OF TECHNICAL AND ADULT EDUCATION

The division administers the Vocational-Technical Institute for students enrolling in vocational and technical courses leading toward two-year Associate in Business and Associate in Technology degrees and technical courses to be taken singly or as units toward short course certificates. The division also administers the noncredit adult education courses offered by university staff members.

DIVISION OF UNIVERSITY EXTENSION

The Division of University Extension is an all-University agency through which all college credit courses in extension are scheduled. These include radio and television courses, in addition to classes scheduled in about thirty-five different communities during each quarter. The division also offers off-campus courses during the summer months, when sufficient requests and needs indicate that such should be done. Interested persons may write to the dean for further information.

INSTITUTES

The University Institutes are separate academic units and are not located within any school or college of the University. Their curricula, however, rely upon courses offered by the various departments within the University.

When the University needs to perform some educational function which cuts across department, school, and college lines, the institute is a means of drawing together the various persons to perform that function.

Community Development Institute

The Community Development Institute is an outgrowth of the University's in-

terest in assisting, through educational means and research, the improvement of the social, economic, and cultural dimensions of living in Southern Illinois.

The aim of the institute's program is to develop understanding in such matters as adult learning, group behavior, the nature and function of the modern community, communication, and the dynamics of change; and to help build competence in working with individuals and groups in the democratic process of social problem solving.

The Community Development Institute offers an undergraduate major leading to a Bachelor of Science degree. An undergraduate minor is also available.

Labor Institute

The Labor Institute has three major objectives: to facilitate regular university instruction in the disciplines related to the labor field; to encourage research in the labor area; and to organize and promote programs of education in the labor field designed to serve workers, employers, and the public. In accomplishing these objectives, the institute co-operates with the other academic units of the University and draws upon their instructional staffs.

The Labor Institute does not offer degree-credit courses. The non-degree-credit classes take the form of intensive short conferences of one to three days' duration or more extended classes to meet the educational needs of particular labor groups. Such conferences and classes are held both on and off campus.

Latin American Institute

The Latin American Institute is an interdepartmental organization engaged in instruction, research, educational services, and student and professorial exchange in the area of Latin America studies. It performs various functions such as: (1) promotion and attainment of a clear understanding of social and cultural conditions throughout Latin America, (2) assistance in the preparation of curricula and courses of Latin American study in which faculty members of the various colleges of the University impart instruction, (3) arrangement for participation of faculty and students in educational exchange programs and participation in programs pertinent to Latin America contracted for through various agencies, and (4) assistance in securing funds from various sources for furthering of research, scholarships, and other programs undertaken in relation to Latin America by the University, its faculty, or its students.

On the undergraduate level, the institute offers a major in Latin American studies leading to the Bachelor of Arts degree in the College of Liberal Arts and Sciences. No undergraduate minor is offered.

On the graduate level, the institute offers a major in inter-American studies leading to the Master of Arts degree.

Rehabilitation Institute

The objectives of the Rehabilitation Institute are (1) to co-ordinate and augment the training of college students and field workers interested in counseling with or providing services for the handicapped, (2) to facilitate and develop within these professional workers responsible standards of professional conduct and ethics, (3) to conduct (and encourage other departments and individuals to engage in) basic and applied research related to both general counseling and the broad area of rehabilitation, (4) to provide counseling and consultative services to both community agencies and handicapped individuals, (5) to establish liaison with community agencies and individuals for mutual facilitation and harmonious interaction, and (6) to solicit and help organize public support and responsibility for the rehabilitation of handicapped individuals.

The Rehabilitation Institute's instructional program currently includes (1) a program in rehabilitation administration and one in rehabilitation counseling, leading to the Master of Arts or the Master of Science degree, (2) a six-week placement counselor training program (blind) offered three times a year for rehabilitation personnel engaged in placing blind persons in competitive occupations, and (3) workshops and institutes.

Small Business Institute

The Small Business Institute was established in 1954 as a result of university studies which revealed that many small communities were failing to retain their young people after graduation from college due to the lack of business opportunities. The institute is one aspect of the University's program to help Southern Illinois students start small businesses and to discover other local business opportunities. It is also interested in helping to solve problems of area business.

The Small Business Institute has as its goal the development of executives for small businesses, rather than the creation of specialists in a single field such as accounting, finance, or sales. Because the businessman plays a vital part in the civic functions of his community, efforts are made, through counseling and internship, to develop in the student additional skills for community leadership.

The Bachelor of Science degree with a major in small business management may be earned in the Small Business Institute.

Transportation Institute

The Transportation Institute was established in July, 1960, to help meet the increasing need for specially educated men and women in the transportation industry. With all four major modes of transport experiencing revolutionary

developments in operation and organization, the transportation industry, so vital to the economy and security of the nation, holds exceptional opportunities for career-minded students. To this end, the Transportation Institute, in cooperation with other agencies of the University, will arrange for special graduate, undergraduate, and adult education courses in transportation.

A Master of Science degree in transportation may be earned through the Transportation Institute and the School of Business.

The Bachelor of Science degree in business with specialization in transportation may be earned in the School of Business.

7 / Schedule of Classes

IN THE FOLLOWING schedule of classes, departments in which courses are being offered are listed in alphabetical order. Courses within the departments are listed in order by course and section number.

Departmental Listing by Academic Unit

ACADEMIC UNIT	DEPARTMENT	ACADEMIC UNIT	DEPARTMENT
Agriculture	Agricultural Industries	Fine Arts	Art
	Animal Industries		Music
	Forestry	Home Economics	Clothing & Textiles
	Plant Industries		Food & Nutrition
Applied Science	Applied Science	Liberal Arts & Sciences	Home & Family
	Industrial Education		Home Economics Education
Business	Accounting		Anthropology
	Economics		Botany
	Management		Chemistry
	Marketing		English
	Secretarial & Business Education		Foreign Language
			Geography
Communications	Journalism	Nursing	Geology
	Printing & Photography		Government
	Radio-Television		History
	Speech		Mathematics
	Speech Correction		Microbiology
	Theater		Philosophy
			Physics
Education	Educational Administration & Supervision		Physiology
	Elementary Education		Psychology
	Guidance		Religious Education
	Health Education		Sociology
	Higher Education		Zoology
	Instructional Materials	Vocational-Technical Institute	Nursing
	Physical Educ. for Men		Vocational-Technical Institute
	Physical Educ. for Women		
	Recreation & Outdoor Educ.		
	Secondary Education		
	Special Education		

Classroom Identification

Abbreviations for buildings in which classes are held during the Summer Session are listed alphabetically in the table below. The numbers in the table refer to the map on page 38. Temporary buildings which are listed only by number in the schedule are not listed in this table.

CODE IN SCHEDULE	CODE NO. ON MAP	NAME OF BUILDING	LOCATION ON MAP
A	3	Allyn Building	G-6
Ag	26	Agriculture Building	I-4
Alg	2	Altgeld Hall	I-7
ApS	57	Applied Science Laboratories	B-5
Aud	6	Shryock Auditorium	H-6
BF	R1	Baptist Foundation	J-6
Browne	9	Browne Auditorium	G-6
BrownH	33	Brown Hall	I-3
Felts	34	Felts Hall	I-3
Gym	7	Gymnasium	E-7
HEc	42	Home Economics Building	I-8
Lib	25	Morris Library	J-5
LG	—	Little Grassy Lake	—
LS	17	Life Science Building	K-4
M	1	Old Main	G-7
Office	—	Office of the department	—
P	4	Parkinson Building	G-6
Play	T36	Playhouse	H-6
Pool	22	University Swimming Pool	M-6
RadS	T37	Radio Studios	H-6
Tennis	—	Tennis Courts	F-6
USch	23	University School	L-7
Wh	8	Wheeler Hall	H-7
Woody	24	Woody Hall	J-7

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
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ACCOUNTING (ACCT)

250-4	Accounting Fundamentals	1	11:45-1:00	MTu ThF	T-32 R 111	Mr. Swick
251-4	Accounting I	1	7:30-8:45	MTu ThF	T-32 R 111	Miss Ogden
252-4	Accounting II	1	8:55-10:10	MTu ThF	T-32 R 110	Mr. Schmidlein
253-4	Accounting III	1	10:20-11:35	MTu ThF	T-32 R 110	Mr. Schmidlein
309-2 ¹	Individual Income Tax	1	8:55-10:10	Tu Th	T-32 R 111	Mr. Swick
341-3	Cost Accounting	1	8:55-10:10	M W F	T-32 R 111	Miss Ogden
355-3	Governmental Accounting	1	10:20-11:35	M W F	T-32 R 111	Miss Ogden
432-4	Problems in Federal Taxation	1	7:30-8:45	M WThF	T-32 R 110	Miss Barron
459-4	Internship in Accounting	1	To be arranged		T-32 R 118	Mr. Swick
500-2 to 5	Readings in Accounting	1	To be arranged		T-32 R 118	Mr. Swick
501-2 to 5	Individual Research in Accounting	1	To be arranged		T-32 R 118	Mr. Swick
599-2 to 9	Thesis	1	To be arranged		T-32 R 102	Mr. Schmidlein

¹ Not open to accounting majors**AGRICULTURAL INDUSTRIES (AG I)**

114-4	Introduction to Agricultural Economics	1	7:30-8:45 7:30-10:10	MTu F W	Ag 225	Mr. Benton
310-4	General Agriculture	1	10:20-11:35 8:55-11:35	M WTh Tu	Ag 225	Mr. Wood
373-5	Farm Power and Machinery	1	8:55-10:10 8:55-11:35	M W F Tu Th	Ag 115 Ag Quonset	Mr. Paterson
390-1 to 3	Special Studies in Agricultural Industries	1	To be arranged			Staff
520-1 to 6	Readings	1	To be arranged			Staff
575-1 to 6	Research	1	To be arranged			Staff
599-1 to 9	Thesis	1	To be arranged			Staff

ANIMAL INDUSTRIES (AN I)

319-2	Horses (June 19-July 14)	1	10:20-11:35	MTuW F	Ag 114	Mr. Kammlade
337-4	Animal Hygiene	1	7:30-8:45	MTuWTh	Ag 116	Mr. Burnside
390-2 to 4	Special Studies in Animal Industries	1	To be arranged			Staff
420-4	Commercial Poultry Production (June 19-July 14)	1	7:30-10:10 7:30-1:00	TuW F Th	Ag 132	Mr. Hinners
520-1 to 6	Readings in Animal Industries	1	To be arranged			Staff
575-1 to 6	Individual Research	1	To be arranged			Staff
599-1 to 9	Thesis	1	To be arranged			Staff

ANTHROPOLOGY (ANTH)

110-4	The Ways of Mankind	1	10:20-11:35	MTuWTh	LS 323	Mr. Lange
309-4	Peoples and Cultures of Asia and Oceania	1	1:10-2:25	MTuWTh	703 W. Mill	Mr. Grace

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
ANTHROPOLOGY (ANTH) (Continued)						
481-3	Seminar in Anthropology (Primitive Arts and Crafts)	1	8:55-10:10	TuWTh	703 W. Mill	Mr. Dark
483-3 to 6	Research in Anthropology	1	To be arranged		703 W. Mill	Staff
485-3 to 6	Reading in Anthropology	1	To be arranged		703 W. Mill	Staff
490-3 to 6	Fieldwork in Anthropology	1	To be arranged			Staff
590-3 to 9	Graduate Fieldwork in Anthropology	1	To be arranged			Staff
599-3 to 6	Thesis	1	To be arranged			Staff
APPLIED SCIENCE (AP S)						
101-3	Engineering Drawing I	1	7:30-10:10	Tu ThF	T-26 R 114	Staff
205-3	Engineering Drawing II	1	7:30-10:10	Tu ThF	T-26 R 114	Staff
206-4	Descriptive Geometry	1	7:30-10:10	MTu ThF	T-27 R 114	Mr. Glenn
260-3	Analytical Mechanics (Statics)	1	10:20-11:35	M W F	ApS 120	Staff
262-3	Analytical Mechanics (Dynamics II)	1	10:20-11:35	M W F	ApS 120	Mr. Glenn
263-4	Surveying I	1	1:10-3:50	MTu ThF	ApS 120	Mr. Glenn
264-4	Surveying II	1	1:10-3:50	MTu ThF	ApS 120	Staff
306-3	Applied Mechanics I	1	10:20-11:35	M W F	ApS 120	Staff
ART (ART)						
100-5	Basic Studio	1	7:30-10:10	MTuW F	A 112	Mr. Harris
120-3	Art Appreciation	1	8:55-10:10	M W F	Alg 115	Mr. Shryock
245-4	The Figure	1	7:30-10:10	MTuW F	ApS 110	Mr. Breland and Staff
250-4	Oil Painting	1	7:30-10:10	MTuW F	A 202	Mr. Breland and Staff
302-4	Pottery Workshop (June 19-30)	1	9:30-12:30 1:30-3:30	MTuWThFS MTuWThFS	A 5	Mr. Vergette
309-3	Oriental Art	1	8:55-10:10	M W F	A 102	Mr. Watkins
320-4	Advanced Painting	1	7:30-10:10	MTuW F	A 202	Mr. Breland and Staff
325-4	Studio	1	7:30-10:10	MTuW F	A 202	Mr. Breland and Staff
345-3	Art of the Nineteenth Century	1	10:20-11:35	M W F	A 102	Mr. Watkins
406-4	Studio in Painting	1	7:30-10:10	MTuW	A 202	Mr. Breland and Staff
426-4	Pottery Workshop (June 19-30)	1	9:30-12:30 1:30-3:30	MTuWThFS MTuWThFS	A 5	Mr. Vergette
501-2	Seminar in Painting	1	To be arranged			Staff
506-4	Research in Painting	1	7:30-10:10	MTuW F	A 202	Mr. Breland and Staff

ASIAN STUDIES (AS ST)

Students interested in a minor in Asian Studies should consult Mr. Ping-Chia Kuo, Chairman, Committee on Asian Studies. Offices are located in Old Main building. Special courses available are Anthropology 309, Art 309, Government 457, History 367, and Philosophy 303.

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
BOTANY (BOT)						
101-5	General Botany	1	7:30-8:45	M W F	LS 133	Staff
			7:30-10:10	Tu Th	LS 307	
		2	7:30-8:45	M W F	LS 133	Staff
			7:30-10:10	Tu Th	LS 308	
		3	7:30-8:45	M W F	LS 133	Staff
			10:20-1:00	M W	LS 307	
		4	7:30-8:45	M W F	LS 133	Staff
			10:20-1:00	M W	LS 308	
		5	11:45-1:00	M W F	LS 133	Mr. Welch
			10:20-1:00	Tu Th	LS 307	
		6	11:45-1:00	M W F	LS 133	Mr. Welch
			1:10-3:50	Tu Th	LS 308	
		7	11:45-1:00	M W F	LS 133	Mr. Welch
			7:30-10:10	M W	LS 307	
		8	11:45-1:00	M W F	LS 133	Mr. Welch
			7:30-10:10	M W	LS 308	
131-5	Field Biology	1	7:30-10:10	TuWThF	LS 313	Mr. Marberry
202-5	General Botany	1	10:20-11:35	M W F	LS 326	Miss Kaeiser
			10:20-1:00	Tu Th	LS 308	
320-5	Plant Physiology	1	7:30-10:10	Tu Th	LS 311	Mr. Applegate
			8:55-10:10	M W F	LS 326	
480-4	Classical Principles of Botany	1	7:30-8:45	TuWThF	LS 326	Staff
501-4	Botany for High School Teachers	1	2:35-3:50	M W	LS 326	Mr. Mohlenbrock
543-5	Experimental Ecology	1	2:35-5:05	Tu Th	LS 307	
			10:20-11:35	M W	LS 313	Mr. Ashby
			10:20-1:10	Tu Th		
591-3 to 6	Research	1	To be arranged			Staff
599-3 to 9	Thesis	1	To be arranged			Staff
CHEMISTRY (CHEM)						
101-4	General Chemistry	1	8:55-10:10	M W F	Browne	Mr. Garrison
			7:30-10:10	Tu Th	P 200	
		2	8:55-10:10	M W F	Browne	Mr. Garrison
			7:30-10:10	Tu Th	P 206	
		3	8:55-10:10	M W F	Browne	Mr. Garrison
			7:30-10:10	Tu Th	P 213	
		4	8:55-10:10	M W F	Browne	Mr. Garrison
			10:20-1:00	M W	P 213	
		T5	8:55-10:10	M W F	Browne	Mr. Garrison
			10:20-1:00	M W	P 206	
		T6	8:55-10:10	M W F	Browne	Mr. Garrison
			10:20-1:00	Tu Th	P 213	
		T7	10:20-11:35	M W F	Browne	Mr. Hadley
			10:20-1:00	Tu Th	P 200	
		T8	10:20-11:35	M W F	Browne	Mr. Hadley
			10:20-1:00	Tu Th	P 206	
		T9	10:20-11:35	M W F	Browne	Mr. Hadley
			7:30-10:10	M W	P 213	
		T10	10:20-11:35	M W F	Browne	Mr. Hadley
			7:30-10:10	M W	P 206	
		T11	10:20-11:35	M W F	Browne	Mr. Hadley
			1:10-3:50	Tu Th	P 206	
		T12	10:20-11:35	M W F	Browne	Mr. Hadley
			1:10-3:05	Tu Th	P 213	

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
CHEMISTRY (CHEM) (Continued)						
113-5	Inorganic Chemistry and Qualitative Analysis	1	7:30-8:45	Tu Th	P 107	Mr. Van Lente
			8:55-10:10	Tu	P 107	
		2	7:30-10:10	M W F	P 200	Mr. Garrison
			10:20-11:35	Tu Th	P 107	
			11:45-1:00	Tu	P 107	
			10:20-1:00	M W F	P 200	
221-3	Qualitative Analysis	1	8:55-10:10	M W	P 107	Mr. Sellers
			7:30-11:35		P 213	Staff
235-5	General Quantitative Analysis	1	7:30-8:45	M W F	P 204	Mr. Van Atta
			7:30-11:35	Tu Th	P 103	
432-4	Instrumental Techniques	1	10:20-11:35	Tu Th	P 204	Mr. Sellers
			10:20-1:00	M W	P 104B	Staff
446-4	Qualitative Organic Analysis	1	7:30-8:45	Tu Th	P 204	Mr. Hadley
			7:30-11:35	M W	P 115	
460-5	Theoretical Chemistry	1	10:20-11:35	M W F	P 107	Mr. Van Lente
			10:20-1:00	Tu Th	P 104	
496-2 to 6	Chemical Problems	1	To be arranged		P 112	Staff
596-3 to 6	Advanced Chemical Problems	1	To be arranged		P 112	Staff
599-3 to 9	Research and Thesis	1	To be arranged		P 112	Staff

CLOTHING AND TEXTILES (C & T)

127-4	Clothing Selection and Construction	1	8:55-10:10	MTu Th	HEc 310	Miss Whitesel
			10:20-11:35	MTuWThF		
135-3	Textiles	1	1:10-3:50	Tu Th	HEc 304	Miss Hoffman
233-3	Pattern Designing and Clothing Construction	1	1:10-3:50	M W F	HEc 310	Miss Whitesel
474-4	Advanced Textiles	1	7:30-8:45	MTu ThF	HEc 304	Miss Hoffman

COMMUNITY DEVELOPMENT (C D)

Students interested in a major or minor in Community Development should consult Mr. Richard C. Franklin, Director, Community Development Institute. Offices are located in Chautauqua Housing, Barracks T-127.

ECONOMICS (ECON)

205-5	Survey of Economic Principles	1	7:30-8:45	MTuWThF	M 203	Mr. Wiegand
			7:30-8:45	Tu Th	M 207	
		2	8:55-10:10	MTuWThF	M 201	Mr. Wiegand
			8:55-10:10	Tu Th	M 209	
206-4	Economic Principles and Problems	1	7:30-8:45	MTu ThF	M 306	Mr. Allen Staff
		T2	8:55-10:10	M WThF	M 306	
307-4	Economics and Business Statistics	1	7:30-8:45	MTuWThF	P 111	Mr. Martinsek
		T2	8:55-10:10	MTuWThF	P 204	Staff
310-4	Labor Problems	1	8:55-10:10	MTu ThF	M 202	Mr. Morrison
315-4	Money and Banking I	1	10:20-11:35	MTuWTh	M 305a	Mr. Wells

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
ECONOMICS (ECON) (Continued)						
470-3	Business Cycles	1	11:45-1:00	M W F	M 112	Mr. Martinsek
490-4 ¹	Economic Education Workshop (July 3-14)	1	8:55-11:35 1:10-3:50	MTuWThF MTuWThF	Ag 216	Mr. Cochran
501-1 to 5	Economic Readings	1	To be arranged		Office	Mr. Cochran
599-3 to 9	Thesis	1	To be arranged		Office	Mr. Cochran
¹ Cross-listed with Secondary Education 490. Extra session Saturday, July 8.						
EDUCATIONAL ADMINISTRATION AND SUPERVISION (ED AD)						
100-3	Introduction to Education	1 T2	8:55-10:10 10:20-11:35	MTu Th MTu Th	T-42 R 118 T-41 R 104	Mr. Gwaltney Staff
331-3	American Public Education	1 2	7:30-8:45 10:20-11:35	MTuW MTuW	T-42 R 118 T-42 R 118	Mr. Brammell Mr. Brammell
355-4 ¹	Philosophy of Education	1	10:20-11:35	MTuWTh	A 207	Mr. Moore
355-4	Philosophy of Education	2	8:55-10:10	MTuWTh	T-41 R 103	Mr. Lawson
		3	7:30-8:45	MTuWTh	T-40 R 101	Mr. Strong
		T4	11:45-1:00	MTuWTh	T-41 R 101	Mr. McMackin
		T5	1:10-2:25	MTuWTh	T-42 R 118	Mr. McMackin
420-4	Legal Basis of American Education	1	8:55-10:10	MTuWTh	T-41 R 104	Mr. Beem
424-4	School Administration	1 T2	10:20-11:35 8:55-10:10	MTuWTh MTuWTh	T-41 R 101 LS 323	Mr. Lawson Mr. Smith
431-3	History of Education in the United States	1	11:45-1:00	MTuW	T-42 R 118	Mr. Brammell
456-4	School Supervision	1	7:30-8:45	MTuWTh	T-41 R 104	Mr. Bryant
460-4	Curriculum	1	7:30-8:45	MTuWTh	HEc 302	Mr. Smith
500-4	Research Methods	1 2 T3	7:30-8:45 8:55-10:10 10:20-11:35	MTuWTh MTuWTh MTuWTh	T-40 R 115 T-40 R 115 T-40 R 115	Mr. Hall Mr. Hall Staff
534-4	School Finance	1	10:20-11:35	MTuWTh	T-40 R 101	Mr. Beem
554-4	Contrasting Philosophies of Education	1	11:45-1:00	MTuWTh	HEc 201	Mr. Axtelle
556-4	Seminar in Educational Supervision	1	1:10-2:25	MTuWTh	T-41 R 101	Mr. Bracewell
563-4	School Public Relations	1	8:55-10:10	MTuWTh	USch 41	Mr. Neal
575A-4	Individual Research (Curriculum)	1	To be arranged			Staff
575B-4	Individual Research (Supervision)	1	To be arranged			Staff
575C-4	Individual Research (Buildings)	1	To be arranged			Staff
575D-4	Individual Research (Finance)	1	To be arranged			Staff
575E-4	Individual Research (School Law)	1	To be arranged			Staff
575F-4	Individual Research (Comparative Education)	1	To be arranged			Staff
575G-4	Individual Research (History of Education)	1	To be arranged			Staff
575H-4	Individual Research (Philosophy of Education)	1	To be arranged			Staff
575J-4	Individual Research (Administration)	1	To be arranged			Staff
575K-4	Individual Research (Elementary Administration)	1	To be arranged			Staff
596-4	Independent Investigation	1	To be arranged			Staff
597-1 to 3	Thesis	1	To be arranged			Staff
598-1 to 3	Thesis	1	To be arranged			Staff
599-1 to 3	Thesis	1	To be arranged			Staff
600-1 to 14	Dissertation	1	To be arranged			Staff

¹ Cross-listed with Secondary Education

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
313-4	Children's Literature	1	10:20-11:35	MTuWTh	M 307	Miss Sauce
314-4	Elementary School Methods	1	7:30-8:45	MTuWTh	T-41 R 101	Mr. Randolph
337-4	Readings in the Elementary School	1	8:55-10:10	MTuWTh	T-41 R 102	Miss Williams

ELEMENTARY EDUCATION (ED EL)

401-4	Aero-Space Education Workshop (August 14-25)	1	8:55-11:35 1:10-3:50	MTuWThF	HEc 201	Staff
415-3	Improvement of Instruction in Arithmetic (Workshop) (July 10-28)	1	1:00-3:15	MTuWThF	T-40 R 115	Mrs. Carter
433-4	Workshop in Elementary Education (Kindergarten-Primary) (June 19-July 14)	1	8:55-11:35	MTuWThF	Ag 153	Miss Baker
435-4 to 8 ¹	Workshop in Elementary School Foreign Languages (June 19-July 14)	1	7:30-11:35	MTuWThF	Wh 212	Staff
437-4	Problems in Reading	1	10:20-11:35	MTuWTh	T-41 R 103	Mr. Brod
442-4	Materials and Methods in Science	1	7:30-8:45	MTuWTh	USch 304	Mr. Brown
443-4	Workshop in Social Studies (Background Material for Grades 4-8) (June 19-July 14)	1	1:10-3:15	MTuWThF	HEc 201	Mr. Lee and Staff
461-4	Elementary School Curriculum	1	10:20-11:35	MTuWTh	T-41 R 102	Mr. Bradfield
507-2 to 4 ²	Readings in Reading	1	To be arranged			Mr. Karlin
515-4	Special Problems in Teaching of Arithmetic	1	7:30-8:45	MTuWTh	T-40 R 114	Mrs. Carter
522-3	Diagnosis and Correction of Reading Disabilities II	1	8:55-10:10	MTuWTh	T-40 R 101, 102	Mr. Karlin
541-4	Selected Teaching and Current Problems in Elementary Science	1	10:20-11:35	MTuWTh	USch 304	Mr. Brown
542-4	Language Arts in the Elementary School	1	8:55-10:10	MTuWTh	T-40 R 114	Miss Sauce
557-4	Elementary Principalship	1	7:30-8:45	MTuWTh	T-41 R 103	Mr. Bradfield
558-3	Leadership in Elementary Education (June 19-30)	1	8:55-12:00 1:00-3:00	MTuWThF	Ag 116	Mr. Eaves
575A-2 to 4	Individual Research (Curriculum)	1	To be arranged			Staff
575B-2 to 4	Individual Research (Supervision)	1	To be arranged			Staff
575C-2 to 4	Individual Research (Language Arts)	1	To be arranged			Staff
575D-2 to 4	Individual Research (Science)	1	To be arranged			Staff
575E-2 to 4	Individual Research (Reading)	1	To be arranged			Staff
575F-2 to 4	Individual Research (Social Studies)	1	To be arranged			Staff
575G-2 to 4	Individual Research (Elementary Education)	1	To be arranged			Staff
575H-2 to 4	Individual Research (Arithmetic)	1	To be arranged			Staff
575J-2 to 4	Individual Research (Problems in Kindergarten-Primary)	1	To be arranged			Staff
575K-4	Individual Research (Elementary Administration)	1	To be arranged			Staff
596-5 to 9	Independent Investigation	1	To be arranged			Staff
597-1 to 3	Thesis	1	To be arranged			Staff
598-1 to 3	Thesis	1	To be arranged			Staff
599-1 to 3	Thesis	1	To be arranged			Staff

PRACTICE TEACHING

Kindergarten-Primary Student Teaching 350b-4 to 14, 350c-4 to 14—To be arranged
Elementary Student Teaching 351a-4 to 14, 351b-4 to 14, 351c-4 to 14—To be arranged

¹ Cross-listed with Foreign Language

² Cross-listed with Secondary Education

ENGLISH (ENG)

101-3	Composition	T1	7:30-8:45	Tu ThF	M 308	Staff
		2	1:10-2:25	M W F	M 303	Staff
102-3	Composition	T1	8:55-10:10	M WTh	HEc 106	Staff
		2	1:10-2:25	M W F	HEc 202	Staff

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
ENGLISH (ENG) (Continued)						
103-3	Composition	1	7:30-8:45	MTu Th	M 306a	Staff
		2	10:20-11:35	M W F	HEc 106	Staff
		3	1:10-2:25	M W F	M 308	Staff
		T4	1:10-2:25	MTu Th	M 306a	Staff
205-3	Introduction to Poetry	1	7:30-8:45	M W F	M 301	Staff
		T2	7:30-8:45	MTu Th	HEc 106	Staff
		T3	10:20-11:35	MTu Th	M 308	Staff
		4	11:45-1:00	Tu Th	M 301	Staff
206-3	Introduction to Drama	1	8:55-10:10	M F	M 302	Staff
		T2	11:45-1:00	M W F	M 308	Staff
		T3	1:10-2:25	MTu Th	M 305	Staff
209-3	Introduction to World Literature	T1	8:55-10:10	M W F	M 306a	Staff
		2	11:45-1:00	M W F	M 301	Staff
		T3	11:45-1:00	M WTh	M 306a	Staff
		4	1:10-2:25	M W F	M 301	Staff
211-3	Introduction to Fiction	1	7:30-8:45	M WTh	M 305	Staff
		2	8:55-10:10	MTu Th	M 305	Staff
		3	10:20-11:35	M W F	M 301	Staff
		T4	11:45-1:00	M W F	HEc 202	Staff
		5	1:10-2:25	Tu Th	M 302	Staff
212-3	Introduction to Modern Literature	1	7:30-8:45	M W F	HEc 202	Staff
		2	8:55-10:10	M W F	M 301	Staff
		T3	8:55-10:10	M W F	HEc 202	Staff
		4	10:20-11:35	Tu ThF	M 302	Staff
		T5	11:45-1:00	Tu ThF	M 303	Staff
		6	11:45-1:00	M W F	HEc 106	Staff
		7	1:10-2:25	MTu Th	HEc 106	Staff
300-4	Principles of Grammar	1	7:30-8:45	MTu ThF	M 108	Mrs. Krappe
302-4	English Literature to 1550	1	8:55-10:10	MTu ThF	M 108	Mrs. Krappe
309-4	American Literature to 1860	1	10:20-11:35	MTu ThF	M 305	Mr. Pickett
310-4	American Literature since 1860	T1	10:20-11:35	MTu ThF	HEc 202	Staff
		2	11:45-1:00	MTu ThF	M 305	Mr. Pickett
365-4	Shakespeare Comedies	1	1:10-2:25	MTu ThF	M 108	Mr. Staton
391-3	Usage in English	1	7:30-8:45	Tu ThF	M 302	Staff
		T2	7:30-8:45	M	M 302	Staff
				Tu Th	M 301	
		3	8:55-10:10	MTu Th	M 302	Staff
		4	10:20-11:35	M W F	M 306a	Staff
		T5	10:20-11:35	M W F	M 303	Staff
		T6	11:45-1:00	Tu ThF	M 302	Staff
		7	1:10-2:25	M W F	M 302	Staff
421-4	Victorian Poetry	T1	8:55-10:10	MTu ThF	M 303	Mr. Schneider
458-4	American Novel	T1	7:30-8:45	MTu ThF	M 303	Mr. Webb
486-2	Workshop in High School English: Articulation of High School and College English (June 26-July 7)	1	8:30-12:00 1:00-3:00	MTuWThF	HEc 206	Mr. Hook
499-2 to 4 ¹	Readings in English	1	To be arranged			Staff
508-4	Studies in Chaucer	T1	11:45-1:00	MTu ThF	M 108	Mr. Cook
534-4	Studies in Early Nineteenth Century American Writers: Hawthorne	1	10:20-11:35	MTu ThF	M 108	Mr. Stibitz
599-2 to 9	Thesis	1	To be arranged			Staff

¹ Registrants must secure consent of department.

FOOD AND NUTRITION (F & N)

105-4	Foods	1	11:45-2:25 11:45-1:00	M W Tu F	HEc 212	Mrs. Barnes
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Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
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FOOD AND NUTRITION (F & N) (Continued)

206-4	Foods	1	7:30-10:10	W F	HEc 212	Mrs. Barnes
			7:30-8:45	M Th		
248-2	School Lunch Program (June 19-23)	1	9:00-12:00	MTuWThF	HEc 101, 103, 214; Aud.	Mrs. Harper
			1:00-4:00			
335-4	Meal Planning and Table Service	1	10:20-2:25	Tu Th	HEc 105, 107	Mrs. Harper

FOREIGN LANGUAGE (F L) (FR) (GER) (SPAN)

435-4 to 8 ¹	Workshop in Elementary School Foreign Language Instruction (June 19-July 14)	1	7:30-11:35	MTuWThF	Wh 212	Mr. Liedloff
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FRENCH

101-3, 102-3, 103-3 ²	Elementary Course	1	7:30-8:45	MTu ThF	Wh 207	Miss Peacock and Miss Smith
			8:55-10:10	W		
			10:20-11:35	MTu ThF	Wh 214	
103-3	Elementary Course	2	11:45-1:00	M W F	Wh 207	Staff
510-4	French Literature from 1850 to 1900	1	To be arranged			Miss Peacock

GERMAN

101-3, 102-3, 103-3 ²	Elementary Course	1	7:30-8:45	MTuWTh	Wh 214	Mr. Hartwig
			8:55-10:10	MTu ThF		
			10:20-11:35	W		
103-3	Elementary Course	2	11:45-1:00	M W F	Wh 212	Staff

SPANISH

103-3	Elementary Course	1	7:30-8:45	M W F	Wh 203	Staff
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¹ Cross-listed with Elementary Education² To be taken as one unit for a total of 9 hours**FORESTRY (FOR)**

390-1 to 3	Special Problems in Forestry	1	To be arranged			Staff
520A-1 to 6	Readings in Forestry	1	To be arranged			Mr. Hosner
520B-1 to 6	Readings in Resource Economics	1	To be arranged			Mr. Beazley
575-1 to 6	Research	1	To be arranged			Staff
599-2 to 9	Thesis	1	To be arranged			Staff

GEOGRAPHY (GEOG)

100-5	Geography of Man	1	7:30-8:45	M W F	Ag 166	Mr. Harper
				Tu Th	Ag 148	Staff
		2	7:30-8:45	M W F	Ag 166	Mr. Harper
				Tu Th	Ag 154	Staff
		3	7:30-8:45	M W F	Ag 166	Mr. Harper
				Tu Th	Ag 224	Staff
		4	7:30-8:45	M W F	Ag 166	Mr. Harper
			8:55-10:10	Tu Th	Ag 154	Staff
		5	7:30-8:45	M W F	Ag 166	Mr. Harper
			10:20-11:35	Tu Th	Ag 154	Staff

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
GEOGRAPHY (GEOG) (Continued)						
101-5	Physical Geography	1	8:55-10:10	MTuWThF	Ag 144	Mr. LaValle
211-5	Economic Geography for Business Students	1	10:20-11:35	MTuWThF	Ag 224	Mr. Stafford
313-3	Geography of Illinois	1	7:30-8:45	MTu Th	Ag 144	Mr. Cunningham
324-4	Conservation of Natural Resources	1	10:20-11:35	MTu ThF	Ag 144	Mr. Cunningham
405-4	Advanced Economic Geography: Industrial Geography	1	10:20-11:35	MTu ThF	Ag 148	Mr. Harper
485-4	Workshop in the Geography of Latin America (July 10-August 4)	T1	8:55-11:35	MTuWThF	Ag 214	Miss Krause
521-4	Seminar in Economic Geography: Marketing Geography	1	8:55-11:35	MTu ThF	Ag 148	Mr. Stafford
530-1 to 4	Independent Study in Geography	1	To be arranged			Staff
599-1 to 4	Thesis	1	To be arranged			Staff
GEOLOGY (GEOL)						
440-1 to 4	Independent Study	1	To be arranged			Staff
450-9	Field Geology (June 19-July 28)	1	To be arranged		LG-Field Camp	Mr. Amos
541-1 to 4	Research	1	To be arranged			Staff
599-1 to 9	Thesis	1	To be arranged			Staff
GOVERNMENT (GOVT)						
101-5	Problems of American Democracy	1	7:30-8:45	MTuWThF	HEc 301	Mr. Frier
		2	8:55-10:10	MTuWThF	HEc 301	Mr. Morton
		3	10:20-11:35	MTuWThF	HEc 301	Mr. Hanson
		4	11:45-1:00	MTuWThF	HEc 301	Staff
		5	1:10-2:25	MTuWThF	HEc 301	Staff
		T6	7:30-8:45	MTuWThF	M 102	Staff
		T7	2:35-3:50	MTuWThF	HEc 301	Staff
231-5	American National Government	1	7:30-8:45	MTuWThF	M 201	Mr. Hanson
300-4	American Government	1	10:20-11:35	MTu ThF	M 201	Miss Ridgeway
321-1 to 6	Readings in Government	1	To be arranged			Mr. Morton
330-2	Illinois Government	1	10:20-11:35	Tu Th	M 102	Mr. Kenney
370-3	International Relations	1	10:20-11:35	M W F	M 102	Mr. Jacobini
406-4	The American Executive	1	11:45-1:00	MTu ThF	M 102	Mr. Nelson
454-8	Development of German Democracy— in Hamburg, Germany	1	To be arranged			Mr. Alexander
457-4	Governments and Politics of the Near and Middle East	1	1:00-3:50	Tu Th	M 202	Mr. Kamarasy
471-4	American Foreign Policy	1	8:55-10:10	MTuW F	M 102	Mr. Klingberg
502-4	Seminar in American Governmental Problems	1	1:10-2:35	M W F	M 202	Miss Ridgeway
521-1 to 6	Readings in Government	1	To be arranged			Mr. Morton
530-4 to 8	Internship in Public Affairs	1	To be arranged			Staff
599-2 to 9	Thesis	1	To be arranged			Staff
600-4 to 12	Dissertation	1	To be arranged			Staff

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
GUIDANCE (GUID)						
305-4	Educational Psychology	1	7:30-8:45	MTu ThF	HEc 118	Mr. Shaffer
		2	8:55-10:10	TuWThF	A 106	Mr. Hasan
		3	10:20-11:35	MTuW F	HEc 306	Mr. Colgan
		T4	10:20-11:35	MTuW F	M 306	Mr. Gardner
412-4 ¹	Mental Hygiene	1	10:20-11:35	MTuWTh	M 203	Mr. Kelley
		T2	8:55-10:10	MTuWTh	Ag 168	Miss Rafferty
420-4	Educational Statistics	1	8:55-10:10	TuWThF	M 203B	Mr. Fitzpatrick
422-4 ²	Educational Measurements I	1	7:30-8:45	MTuW F	HEc 208	Mrs. Parker
		2	1:10-3:50	M W	HEc 122	Mrs. Josse
		T3	1:10-3:50	M W	HEc 118	Mr. Gardner
442-4	Basic Principles of Guidance	1	11:45-1:00	MTuW F	HEc 102	Mrs. Parker
		T2	11:45-1:00	MTuW F	HEc 118	Mr. Gardner
481-4	Seminar on a Selected Topic (July 10-21)	1	7:30-11:35	MTuWThF	Woody	Mr. Renzaglia
			1:10-3:50			
		2	7:30-11:35	MTuWThF	Woody	Mr. Vicelli
			1:10-3:50			
501-1 to 6	Special Research Problems	1	To be arranged			Mr. Phelps
511-4	Educational Implications of Learning Theories	1	10:20-11:35	TuWThF	Ag 180	Mr. Orton
515-4	Psychological Aspects of Education	1	1:10-3:50	Tu Th	HEc 118	Mr. Skinner
521-4	Designing of Experiments in Education	1	11:45-1:00	M WThF	HEc 303	Mr. Fitzpatrick
522-4	Educational Measurements II	1	8:55-10:10	TuWThF	Ag 170	Mr. Orton
526-4	Techniques of Individual Guidance	1	7:30-8:45	MTuWTh	A 102	Mr. Thalman
536A-4	Appraisal of Intelligence (Elementary)	1	7:30-8:45	MTu ThF	Ag 180	Mr. Russell
536B-4	Appraisal of Intelligence (Adolescents)	1	7:30-8:45	MTu ThF	Ag 180	Mr. Russell
537-4	Counseling and Theory and Practice I	1	1:10-3:50	Tu Th	HEc 122	Mr. Meek
541-4	Occupational Information and Guidance	1	11:45-1:00	MTuWTh	HEc 302	Mr. Ramp
543-4	Guidance Through Groups	1	10:20-11:35	M WThF	Ag 170	Mr. Phelps
545A-4	Seminar: Problems in Guidance	1	1:10-3:50	M W	HEc 302	Mr. Meek
562B-4	Adolescent Development in Education	1	8:55-10:10	TuWThF	M 215	Mr. Skinner
576-4	Practicum in School Personnel Work	1	To be arranged		USch	Mr. DeWeese
599-5 to 9	Thesis	1	To be arranged			Mr. Fitzpatrick
¹ Same as Psychology 432						
² Cross-listed with Secondary Education						
HEALTH EDUCATION (H ED)						
100-4	Healthful Living	1	7:30-8:45	MTuW F	M 107	Mr. Casey
		2	8:55-10:10	M WThF	M 107	Mr. Richardson
		3	10:20-11:35	MTuWTh	LG	Mr. Carlyon
		T4	11:45-1:00	TuWThF	M 107	Staff
		T5	1:10-2:25	MTu ThF	M 107	Staff
		T6	7:30-8:45	TuWThF	Gym 204	Staff
		T7	8:55-10:10	MTuW F	Gym 204	Staff
		T8	10:20-11:35	MTuWTh	M 215	Staff
205-4	Principles and Foundations of Health Education	1	7:30-8:45	M WThF	M 112	Mr. Richardson
302S-4	Driver Education and Training	1	7:30-8:45	MTu ThF	105 E. Grand	Mr. Aaron
313S-4	Introduction to Safety Education	1	11:45-1:00	MTu ThF	Gym 204	Mr. Vaughan
323S-4	Methods and Materials in Safety Education	1	1:10-2:25	MTu ThF	Gym 203	Staff
334S-4	First Aid	1	10:20-11:35	MTu ThF	105 E. Grand	Mr. Bridges
		2	8:55-10:10	MTuWTh	LG	Staff
350-4	Methods and Materials in Elementary Health Education	1	8:55-10:10	M WThF	M 112	Miss Phillips
		T2	10:20-11:35	MTuW F	M 112	Staff

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
HEALTH EDUCATION (H ED) (Continued)						
443S-4	Methods and Materials in Driver Education	1	8:55-10:10	MTu ThF	105 E. Grand	Mr. Bridges
460-4	Methods and Materials in Secondary School Health Education	1	7:30-8:45	TuWThF	A 106	Mr. Vaughan
461-4	Workshop in School Health Education (June 19-July 14)	1	1:10-4:30	MTuWThF	M 203B	Mr. Grissom
462-4	Workshop in School Health Education (June 19-July 14)	1	1:10-4:30	MTuWThF	M 210	Mr. Grissom
463-4	Workshop in School Health Education (June 19-July 14)	1	1:10-4:30	MTuWThF	M 213	Mr. Grissom
471-4	Organization and Administration of the School Health Program	1	7:30-8:45	MTuW F	M 215	Mr. LeFevre
475S-4	Traffic Law Enforcement and Planning	T1	11:45-1:00	MTu ThF	105 E. Grand	Mr. Aaron
480S-4	Workshop in Safety Education (July 17-August 11)	1	1:10-4:30	MTuWThF	M 210	Mr. Stack
511-5	Practicum in Health Education (June 19-July 14)	1	10:00-11:00 1:10-4:30	MTuWThF	M 106	Mr. Grissom
520-4 to 6	Special Projects in Health Education	1	To be arranged			Mr. Boydston
530S-4	Problems in Research in Accident Prevention	T1	10:20-11:35	MTu ThF	M 203B	Mr. Stack
535-3	Human Conservation III	1	To be arranged			Mr. Grissom and Mr. Richardson
HIGHER EDUCATION (HI ED)						
410-4	Higher Education in the United States	T1	7:30-8:45	MTuWTh	HEc 122	Mr. Trueblood
476-4	Administrative Practices	1	8:55-10:10	MTuWTh	M 305A	Mr. Hand
522A-1 to 4	Readings in Higher Education (College Teaching)	1	To be arranged			Mr. Hand
522B-1 to 4	Readings in Higher Education (College Student Personnel)	1	To be arranged			Mr. Trueblood
522C-1 to 4	Readings in Higher Education (College Administration)	1	To be arranged			Mr. Hand
HISTORY (HIST)						
103-3	Survey of Western Civilization	1	10:20-11:35	M W F	M 213	Mr. Rothenberg
201-5 ¹	The United States to 1865	1	7:30-8:45	MTuWTh	Browne	Mr. Adams
201A-0	(Discussion Group) ¹	1	11:45-1:00	Th	M 209	Staff
		2	7:30-8:45	F	M 209	Staff
		3	10:20-11:35	F	M 209	Staff
		4	1:10-2:25	F	M 209	Staff
202-5 ¹	The United States since 1865	1	1:10-2:25	MTuWTh	Browne	Mr. Briggs
202A-0	(Discussion Group) ¹	1	8:55-10:10	F	M 209	Staff
		2	11:45-1:00	F	M 209	Staff
		3	2:35-3:50	F	M 209	Staff
		4	2:35-3:50	M	M 209	Staff
308-3	History of Illinois	1	1:10-2:25	MTu Th	M 207	Mr. Wright
367-3	Introduction to Far Eastern Civilization	1	7:30-8:45	M W F	M 207	Mr. Kuo
373-3	History of Russia since 1905	1	7:30-8:45 8:55-10:10	Tu Th M	M 209	Mr. Kuo

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
HISTORY (HIST) (Continued)						
410-2 to 5	Special Readings in History	1	To be arranged			Staff
412-3	Social and Intellectual U.S., 1830-1900	1	10:20-11:35	M W F	M 207	Mr. Adams
441-3	American Diplomacy since 1898	1	8:55-10:10	M W F	M 206	Mr. Gardiner
473-3	The Caribbean Area in the Twentieth Century	1	11:45-1:00	TuWTh	M 209	Mr. Gardiner
500-4	Seminar in History	1	1:10-3:50	Tu Th	M 209	Mr. Ammon
510-2 to 5	Readings in History	1	To be arranged			Staff
590-1 to 6	Individual Research	1	To be arranged			Staff
599-3 to 9	Thesis	1	To be arranged			Staff

*History 201 and 202 are each taught in large Lecture Sections meeting 4 times a week and in a number of small Discussion Groups meeting once a week. It is essential that each student register for a Discussion Group (201A or 202A).

HOME AND FAMILY (H & F)

435-4	Work Simplification in Home Management (July 17-August 11)	1	8:55-11:35	MTu ThF	HEc 5	Miss Johnston
481-2 to 6	Readings	1	To be arranged			Staff
566-4	Seminar in Home and Family	1	7:30-8:45	MTu ThF	HEc 120	Mr. Moss
599-5 to 9	Thesis	1	To be arranged			Staff

HOME ECONOMICS EDUCATION (H E ED)

415-1	Introduction to Graduate Study	1	8:55-10:10	W	HEc 120	Miss Fults
506-4	Evaluative Procedures in Home Economics (June 20-July 14)	1	8:55-11:35	MTu ThF	HEc 120	Miss Fults
510-4	Supervision of Home Economics (July 17-August 11)	1	1:10-3:50	MTu ThF	HEc 120	Miss Cameron
599-2 to 5	Thesis	1	To be arranged			Staff

INDUSTRIAL EDUCATION (I ED)

112-4	Basic Woodwork	1	10:20-1:00	MTu ThF	T-25 R 102	Staff
122-4	Machine Shop I	1	7:30-10:10	MTu ThF	T-25 R 109	Staff
145-4	Basic Electricity	1	10:20-1:00	MTu ThF	T-25 R 106	Mr. Culpepper
302-4	Construction Methods for Primary Teachers	1	7:30-10:10	MTu ThF	T-25 R 110	Mr. Shake
303-4	Diversified Crafts for Teachers and Recreational Leaders	1	1:10-3:50	MTuWTh	USch R 105	Mr. Pollock Staff
		T2	10:20-1:00	MTu ThF	T-25 R 106	Mr. Shake
319-3	Industrial Internship	1	To be arranged (By permit only)			Mr. Ramp
322-4	Machine Shop III	1	10:20-1:00	MTu ThF	T-25 R 109	Mr. Schroeder
325-4	Advanced Machine Shop	1	10:20-1:00	MTu ThF	T-25 R 109	Mr. Schroeder
332-4	Fundamentals of Transportation	1	8:55-10:10	MTu ThF	USch R 105	Mr. Bunten
342-4	Painting and Finishing	1	7:30-10:10	MTu ThF	T-25 R 102	Mr. Schroeder
360-4	Specialized Advanced Machine Shop	1	10:20-1:00	MTu ThF	T-25 R 109	Mr. Schroeder
365-4	Industrial Safety	1	1:10-2:25	MTu ThF	P 204	Mr. Johnson
380-4	Special Skills in Teaching Industrial Subjects (Electronics)	1	10:20-1:00	MTu ThF	T-25 R 106	Mr. Culpepper
430-2 to 6	Special Problems	1	To be arranged (By permit only)			Mr. Erickson

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
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INDUSTRIAL EDUCATION (I ED) (Continued)

435-6	Manual Arts Internship	1	To be arranged (By permit only)			Mr. Gallington
490-4	Principles of Industrial Teaching	1	10:20-11:35	MTuWTh	T-26 R 110	Mr. Ramp
491-4	Principles of Trade Teaching	1	10:20-11:35	MTuWTh	T-26 R 110	Mr. Ramp
498-4	Organizing and Administering the General Shop	1	7:30-8:45	MTu ThF	T-26 R 110	Mr. Erickson
540-4	Research in Industrial Education	1	8:55-10:10	MTu ThF	T-26 R 110	Mr. Gallington
541-4 ¹	Occupational Information and Guidance	1	11:45-1:00	MTuWTh	HEc 302	Mr. Ramp
560-2 ²	New Developments in Industrial Education (The Area Technical School of the Future) (June 20-23 and 26-29)	1	10:20-11:35 1:10-2:25	TuWThF (June 20-23) MTuWTh (June 26-29)	HEc 208	Mr. Fenninger
560-2 ²	New Developments in Industrial Education (Comparative Industrial Education with Emphasis on Russian Education) (July 3-7 and 10-13)	2	10:20-11:35 1:10-2:25	M WThF (July 3-7) MTuWTh (July 10-13)	HEc 208	Mr. Nichols
560-2 ²	New Developments in Industrial Education (Professional Writing for Publication) (July 18-21 and 24-27)	3	10:20-11:35 1:10-2:25	TuWThF (July 18-21) MTuWTh (July 24-27)	HEc 208	Mr. Stephens
560-2 ²	New Developments in Industrial Education (Industrial Education in the 1970's) (August 1-4 and 7-10)	4	10:20-11:35 1:10-2:25	TuWThF (August 1-4) MTuWTh (August 7-10)	HEc 208	Mr. Hostetler
570-2 to 6	Special Investigation in Industrial Education	1	To be arranged			Mr. Gallington
599-1 to 9	Thesis	1	To be arranged			Mr. Gallington

¹ Cross-listed with Guidance² Cross-listed with Secondary Education**INSTRUCTIONAL MATERIALS (I M)**

306-4	School Libraries as Information Centers	1	8:55-10:10	MTuWTh	T-41 R 101	Mr. Evans
308-4	School Library Technical Processes	1	11:45-1:00	MTuWTh	Lib 112	Mr. Evans
405-4	Library Materials for Children	1	7:30-8:45	MTuWTh	T-41 R 102	Miss Fletcher
406-4	Library Materials for Adolescents	1	10:20-11:35	MTuWTh	Lib 112	Miss Fletcher
417-4	Audio-Visual Methods in Education	1	8:55-10:10	MTuWTh	M 203A	Mr. Wendt
		T2	7:30-8:45	MTuWTh	M 203A	Mr. Wendt
445-4	Preparation of Teacher-Made Audio-Visual Materials (June 20-July 14)	1	1:10-3:50	MTuWThF	Lib 112	Mr. Rust
445-4	Preparation of Teacher-Made Audio-Visual Materials (July 17-August 11)	T2	7:30-10:10	MTuWThF	Lib 112	Mr. Rust

JOURNALISM (JRNL)

201-3	Newsriting and Editing I	1	8:55-10:10	MTuWTh	T-48	Mr. Clayton
202-3	Newsriting and Editing II	1	8:55-10:10	MTuWTh	T-48	Mr. Clayton
214-3	Typography	1	10:20-11:35	MTuWTh	T-48	Mr. Modlin
260A-3 ¹	Beginning Photography	1	8:55-10:10	MTuWTh	T-27 R 100	Mr. Horrell
			1:00-3:50	M W	Ag 140	
390-3	Advanced Reporting	1	10:20-11:35	M W F	T-48	Mr. Clayton
399-1	Senior Seminar	1	To be arranged			Mr. Long

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
JOURNALISM (JRNL) (Continued)						
421-4	School Publications	1	10:20-11:35	M W F	T-48	Mr. Rice
422-3	Teaching High School Journalism	1	1:10-2:25	Tu Th S	T-48	Mr. Rice
432-3	Communication Agencies and Public Opinion	1	7:30-8:45	M W F	T-48	Mr. Long
449-2	Practicum in Publication Supervision	1	To be arranged		T-48	Mr. Clayton
499-3	News Analysis in the Classroom	T1	8:55-10:10	M W F	T-48	Mr. Nelson
533-1 to 3	Research Problems in Journalism	1	To be arranged		T-48	Mr. Long
599-1 to 8	Thesis	1	To be arranged		T-48	Mr. Long

¹ Cross-listed with Printing & Photography

LABOR INSTITUTE (L I)

Students interested in this field should consult Mr. John M. McDermott, Director, Labor Institute. Offices are located at 911 South Forest.

LATIN AMERICAN INSTITUTE (L A I)

Students interested in a special program in Latin American Studies should consult Mr. A. W. Bork, Director, Latin American Institute. Offices are located at 907 South Lewis. Special courses available are Anthropology 110, Foreign Language 103 and 435, Geography 485, Government 370 and 471, and History 441 and 473.

MANAGEMENT (MGT)

170-4	Introduction to Business	1	8:55-10:10	TuWThF	M 210	Mr. Rehn
271-4	Business Writing	1	8:55-10:10	TuWThF	M 214	Mr. Dandeneau
320-5	Corporation Finance	1	8:55-10:10	MTuWThF	M 206	Mr. Hong
365-2 to 14	Small Business Management Internship II	1	To be arranged			Mr. Bedwell
371-4	Business Law I	1	11:45-1:00	TuWThF	M 207	Mr. Winters
380-4	Production Management	1	7:30-8:45	MTuWTh	M 210	Mr. Stamberg
385-4	Personnel Management	1	7:30-8:45	MTuWTh	M 214	Mr. Douglas
485-4	Problems in Personnel Management	1	10:20-11:35	MTuWTh	M 210	Mr. Douglas
500-2 to 5	Readings in Business Administration	1	To be arranged		T-32 R 105	Mr. Hong
501-2 to 5	Individual Research	1	To be arranged		T-32 R 105	Mr. Hong
599-2 to 9	Thesis	1	To be arranged		T-32 R 105	Mr. Hong

MARKETING (MKTG)

230-5	Principles of Marketing	1	10:20-11:35	MTuWThF	HEc 201	Mr. Benson
331-4	Retailing	1	8:55-10:10	TuWThF	M 207	Mr. Hindersman
337-4	Principles of Salesmanship	1	11:45-1:00	TuWThF	Browne	Mr. Hoffman
349-3	Wholesaling	1	7:30-8:45	M W F	HEc 201	Mr. Hindersman
438-4	Sales Management	1	10:20-11:35	MTuWTh	HEc 302	Mr. Hoffman

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
MARKETING (MKTG) (Continued)						
500-2 to 5	Readings	1	To be arranged			Mr. Hindersman
501-2 to 5	Individual Research	1	To be arranged			Mr. Benson
595-3	Seminar	1	To be arranged			Mr. Benson
599-1 to 9	Thesis	1	To be arranged			Mr. Hoffman
MATHEMATICS (MATH)						
106A-4	General Mathematics I	1	7:30-8:45	MTu ThF	M 310	Staff
		2	10:20-11:35	MTu ThF	M 314	Staff
		T3	10:20-11:35	MTu ThF	M 310	Staff
		4	1:10-2:25	M WThF	M 310	Staff
106C-4	General Mathematics I (Pre-111)	1	11:45-1:00	M WThF	M 311	Staff
107A-4	General Mathematics II	1	7:30-8:45	MTu ThF	M 309	Mr. Wimp
		T2	7:30-8:45	MTu ThF	M 312	Staff
111-5	Elementary Analysis I	1	8:55-10:10	MTuWThF	M 311	Miss Beckemeyer
		2	11:45-1:00	MTuWThF	M 314	Mr. Hall
112-5	Elementary Analysis II	1	10:20-11:35	MTuWThF	M 311	Mr. Wimp
		T2	10:20-11:35	MTuWThF	M 312	Staff
113-5	Calculus and Analytic Geometry I	1	1:10-2:25	MTuWThF	M 314	Mr. Rodabaugh
		T2	1:10-2:25	MTuWThF	M 309	Staff
210-4	Teaching of Elementary Mathematics	1	7:30-8:45	MTuW F	M 314	Mr. Fulkerson
		2	8:55-10:10	MTu ThF	M 310	Mr. Slechticky
220-4	Elementary Statistics	1	11:45-1:00	MTuWThF	M 309	Mr. Skalsky
		T2	11:45-1:00	MTuWThF	M 310	Staff
251-4	Calculus and Analytic Geometry II	1	7:30-8:45	M WThF	M 311	Mr. Hall
252-4	Calculus and Analytic Geometry III	1	8:55-10:10	MTu ThF	M 314	Mr. Wilson
253-4	Calculus and Analytic Geometry IV	1	10:20-11:35	M WThF	M 309	Mr. Rodabaugh
320-4	Fundamental Concepts of Alegbra I	1	8:55-10:10	M W F	M 309	Mr. Skalsky
430-4	Projective Geometry	1	1:10-2:25	MTu ThF	M 311	Mr. Black
440-4	Modern Algebra for Teachers	1	8:55-10:10	Tu Th	Ag 150	Staff
	(National Science Foundation)		10:20-11:35	M W F		
442-4	Survey of Geometry	1	7:30-8:45	M W F	Ag 148	Staff
	(National Science Foundation)		1:10-2:25	M W F	Felts	
443-4	Analytic Methods in Geometry	1	7:30-8:45	M W F	Ag 150	Staff
	(National Science Foundation)		1:10-2:25	M W F	BrownH	
		2	8:55-10:10	Tu Th	Ag 146	Staff
			10:20-11:35	M W F		
540-4	Groups and Linear Transformations	1	8:55-10:10	Tu Th	Ag 166	Staff
	(National Science Foundation)		1:10-2:25	M W F		
550C-2 ¹	Seminar in Analysis	1	2:35-3:50	Tu Th	M 314	Mr. Wilson
550E-2	Seminar in Mathematics Education	1	1:10-3:50	Tu	BrownH	Staff
	(National Science Foundation)					
		2	1:10-3:50	Th	BrownH	Staff
595A-2 to 4	Special Project in Algebra	1	To be arranged			Staff
595B-2 to 4	Special Project in Geometry	1	To be arranged			Staff
595C-2 to 4	Special Project in Analysis	1	To be arranged			Staff
595D-2 to 4	Special Projects in Probability and Statistics	1	To be arranged			Staff
595E-2 to 4	Special Project in Mathematics Education	1	To be arranged			Staff
599-2 to 6	Thesis	1	To be arranged			Staff

¹ Registrants must secure consent of department

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
MICROBIOLOGY (MICR)						
511	Research	1	To be arranged			Staff
528-1 to 10	Readings in Microbiology	1	To be arranged			Staff
550-4	Microbiology for High School Teachers (National Science Foundation)	1	7:30-8:45	Tu Th W F	LS G-16 LS G-6	Mr. Goldberg
551-3	Intermediate Microbiology for High School Teachers (National Science Foundation)	T1	2:35-3:50 3:55-5:05	M W	LS G-16 LS G-16	Mr. Goldberg
552-1	Seminar in Biological Science for High School Teachers (National Science Foundation)	1	1:10-2:25 10:20-11:35	M F	LS G-16	Staff
599-3 to 9	Thesis	1	To be arranged			Staff
MUSIC (MUS)						
001-1	Band	1	1:10-2:25	Tu Th	Aud Stage	Mr. Olsson
002-1	Chorus	1	1:10-2:25	W F	Alg 115	Mr. Hines
003-1	Orchestra	1	1:10-2:25	M Tu	Aud Stage	Mr. Ficocelli
011-2 to 4	Private Violin	1	To be arranged		Alg 219	Mr. Wharton
012-2 to 4	Private Viola	1	To be arranged		Alg 219	Mr. Wharton
013-2 to 4	Private Cello	1	To be arranged		Aud 111	Mr. Ficocelli
014-2 to 4	Private Double Bass	1	To be arranged		Aud 111	Mr. Ficocelli
021-2 to 4	Private Flute	1	To be arranged		Alg 233	Mr. Bottje
022-2 to 4	Private Oboe	1	To be arranged		Alg 231	Mr. Forman
024-2 to 4	Private Bassoon	1	To be arranged		Alg 231	Mr. Forman
031-2 to 4	Private Percussion	1	To be arranged		Aud 201	Mr. Canedy
040-1	Class Piano	1	8:55-10:10	M W F	Alg 301	Mr. Wharton
041-2 to 4	Private Piano	1	To be arranged		Alg 247	Mr. Denker
041-2 to 4	Private Piano	2	To be arranged		Alg 245	Mr. Mueller
051-2 to 4	Private French Horn	1	To be arranged		Alg 204	Mr. Olsson
052-2 to 4	Private Trumpet	1	To be arranged		Alg 204	Mr. Olsson
060-1	Class Voice	1	7:30-8:45	Tu Th	Alg 115	Mr. Hines
061-2 to 4	Private Voice	1	To be arranged		Alg 246	Mr. Kelleys
071-2 to 4	Private Organ	1	To be arranged		Alg 243	Mr. Morgan
NOTE: Additional courses in private or class instruments will be offered to qualified students after consultation with the chairman of the Department of Music. All class instrument and voice students are reminded of the requirement of at least one hour of private practice per day. Air-conditioned practice rooms will be assigned on the first day of the summer session at the Department of Music Office (Alg 103).						
100-3	Music Understanding	1	7:30-8:45	M W F	Alg 115	Mr. McIntosh
307-4	Recreational Music	1	8:55-10:10	MTu ThF	Alg 248	Mr. McIntosh
312-2	Composition I	1	To be arranged		Alg 233	Mr. Bottje
313-2	Composition II	1	To be arranged		Alg 233	Mr. Bottje
314-2	Composition III	1	To be arranged		Alg 233	Mr. Bottje
320-2	Conducting III	1	To be arranged		Alg 233	Staff
346-2 to 8	Opera Workshop	1	2:30-4:30 7:00-10:00 P.M.	MTuWThF MTuWThF	Alg 247 Alg 115	Mr. Kelleys Mr. Olsson
451-2	The Teaching of General Classroom Music (Junior and Senior High School)	1	To be arranged			Mr. Taylor
455-4	Elementary Music Education Workshop (July 3-14)	T1	9:00-12:00 1:30-3:30	MTuWThF	Alg 106	Mr. Thomas
471-2 to 4	Private Piano	1	To be arranged		Alg 247	Mr. Denker
472-2 to 4	Private Voice	1	To be arranged		Alg 246	Mr. Kelleys
474A-2 to 4	Private Flute	1	To be arranged		Alg 233	Mr. Bottje
476-2 to 4	Private Organ	1	To be arranged		Alg 243	Mr. Morgan
501-3	Introduction to Graduate Study	1	8:55-10:10	M W F	Alg 105	Mr. Morgan
502-3	History and Analysis of Style	1	10:20-11:35	M W F	Alg 106	Mr. Mueller
531-3	Advanced Composition	1	To be arranged		Alg 233	Mr. Bottje

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
MUSIC (MUS) (Continued)						
553-3	Workshop (Seminar) in Choral Materials and Techniques (July 17-28)	1	1:00-4:00	MTuWThF	Alg 115	Mr. Taylor and Mr. Hines
554-3	Workshop (Seminar) in Instrumental Materials and Techniques (July 17-28)	1	9:00-12:00	MTuWThF	Aud Stage	Mr. Olsson, Mr. Canedy, and Mr. Forman
556-2	Advanced Conducting	1	To be arranged			Staff
560-2	Seminar in Music Education	1	To be arranged			Mr. Thomas
568-2 to 8	Opera Workshop	1	2:30-4:30	MTuWThF	Alg 246	Mr. Kelleys
571-4	Private Piano	1	To be arranged		Alg 115	Mr. Olsson
572-4	Private Voice	1	To be arranged		Alg 247	Mr. Denker
576-4	Private Organ	1	To be arranged		Alg 246	Mr. Kelleys
599-3 to 6	Thesis	1	To be arranged		Alg 243	Mr. Morgan
					Alg 103	Staff

NURSING (NURS)

240-4	Medical-Surgical Nursing III	1	1:00-2:50 2 hours to be arranged	TuW M	HEc 128 Hospital	Miss Jimison
240A-4	Medical-Surgical Nursing Practicum III	1	7:00-12:30 7:00-3:30 7:00-2:30	TuW Th F	Hospital	Miss Jimison and Staff
385-2	General Nursing	1	10:30-12:10	Tu F	Hospital	Mrs. Breniman
386-3	General Nursing Practicum (June 20-July 14)	1	7:30-10:20 10:30-12:10	MTuWThF M Th	Hospital	Mrs. Breniman

PHILOSOPHY (PHIL)

120-2	Practical Logic I	1	8:55-10:10	Tu Th	A 102	Mr. Moore
140-2	Ideas of Good and Evil	1	11:45-1:00	Tu Th	A 102	Mr. McClure
303-4	Oriental Philosophy	1	8:55-10:10	MTuWTh	A 207	Staff
340-4	Elementary Ethics and Politics	1	10:20-11:35	MTuWTh	P 301	Mr. McClure
355-4 ¹	Philosophy of Education	1	10:20-11:35	MTuWTh	A 207	Mr. Moore
490-2 to 4	Special Problems	1	To be arranged		A 208	Mr. Moore
530-2 to 4	Seminar in Theory of Knowledge	1	To be arranged		A 211	Mr. McClure
589-2 to 5	General Graduate Seminar	1	To be arranged		A 208	Mr. McClure
590-2 to 5	General Graduate Seminar	1	To be arranged		A 208	Mr. Moore
591-1 to 5	Readings in Philosophy	1	To be arranged		A 208	Mr. Moore
599-3 to 6	Thesis	1	To be arranged		A 208	Mr. Moore

¹ Cross-listed with Educational Administration and Supervision**PHYSICAL EDUCATION FOR MEN (PEM)**

REQUIRED PHYSICAL EDUCATION

149-1	Freshman Adapted and Restricted Physical Education	1	11:45-1:00	MTuW	Gym 207	Mr. Green
151-1	Freshman Required Physical Education (Recreational Sports)	1	7:30-8:45	MTu Th	Gym 207	Mr. Martin
152-1	Freshman Required Physical Education (Recreational Sports)	1	8:55-10:10	MTu Th	Gym 207	Mr. Martin
153-1	Freshman Required Physical Education (Recreational Sports)	1	10:20-11:35	MTuW	Gym 207	Mr. Gallatin

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
PHYSICAL EDUCATION FOR MEN (PEM) (Continued)						
203-1 ²	Elementary Swimming	1	10:20-11:35	M W	Pool	Mr. Holder
204-1 ²	Intermediate Swimming	1	11:45-1:00	M W	Pool	Mr. Holder
		2	11:45-1:00	Tu Th	Pool	Mr. Shea
205-1 ²	Advanced Swimming	1	To be arranged		LG ¹	Mr. Franz
220-1 ²	Recreational Activities (Outdoor)	1	7:30-8:45	M W	Gym 207	Mr. Gallatin
		2	7:30-8:45	Tu Th	Gym 207	Mr. Iubelt
		3	8:55-10:10	M W	Gym 207	Mr. Gallatin
		4	8:55-10:10	Tu Th	Gym 207	Mr. Piccone
		5	8:55-10:10	M W	Gym 207	Mr. Meade
		6	8:55-10:10	Tu Th	Gym 207	Mr. Iubelt
		7	10:20-11:35	M W	Gym 207	Mr. Meade
		8	10:20-11:35	Tu Th	Gym 207	Mr. Meade
		9	11:45-1:00	M W	Gym 207	Mr. Hartzog
		10	11:45-1:00	Tu Th	Gym 207	Mr. Hartzog
240-1 ²	Golf Techniques	1	10:20-11:35	Tu Th	Gym 207	Mr. Holder
249-1	Sophomore Adapted and Restricted Physical Education	1	11:45-1:00	M W	Gym 207	Mr. Green
251-1	Sophomore Required Physical Education (Tennis)	1	10:20-11:35	M W	Tennis	Mr. LeFevre
378-1 ²	Canoeing and Boating	1	To be arranged		LG ¹	Mr. Franz
PHYSICAL EDUCATION FOR MAJORS AND MINORS						
118-1	Methods and Materials of Teaching Tennis	1	8:55-10:10	M W	Tennis	Mr. LeFevre
119-1	Methods and Materials of Teaching Golf	1	8:55-10:10	Tu Th	Gym 207	Mr. Holder
217-2	Methods and Materials of Coaching Football	1	7:30-8:45	MTuWTh	Gym 203	Mr. Piccone
331C-2	Theory of Coaching Track and Field	1	8:55-10:10	Tu Th	Gym 203	Mr. Hartzog
341-3	Principles of Physical Education	1	11:45-1:00	MTuW	Gym 203	Mr. Lingle
376-3	Emergency Care and Prevention of Athletic Injuries	1	10:20-11:35	MTuWTh	Gym 204	Mr. Spackman
400-4	Evaluation in Physical Education	1	10:20-11:35	MTuWTh	Gym 203	Mr. Shea
420-3	Physiological Effects of Motor Activity (June 19-July 14)	1	1:10-3:50	MTuWTh	Gym 204	Mr. Bender
500-4	Techniques of Research	1	8:55-10:10	MTuWTh	Gym 206	Miss Zimmerman
525-1 to 6	Readings in Physical Education	1	To be arranged			Staff
599-6 to 9	Thesis	1	To be arranged			Staff

¹ No transportation from campus to lake is available.² May be substituted for Sophomore Required Physical Education**PHYSICAL EDUCATION FOR WOMEN (PEW)**

100-1	Beginning Swimming	1	7:30-8:45	M W F	Pool	Miss Thorpe
127-1	Basic Body Movements	1	8:55-10:10	Tu ThF	Gym 114	Miss Wood
205-1	Intermediate Swimming	1	7:30-8:45	M W	Pool	Miss Stehr
214-1	Archery	1	8:55-10:10	Tu Th	Gym	Miss Thorpe
		2	10:20-11:35	M W	Gym	Miss Wood
		T3	7:30-8:45	F	Gym	Staff
			1:10-2:25	M		

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
PHYSICAL EDUCATION FOR WOMEN (PEW) (Continued)						
215-1	Badminton	1	11:45-1:00	M W	Gym	Miss Thorpe
		2	11:45-1:00	Tu Th	Gym	Miss Wood
216-1	Tennis	1	7:30-8:45	M W	Gym	Miss Wood
		2	7:30-8:45	Tu Th	Gym	Miss Thorpe
		3	8:55-10:10	M W	Gym	Miss Wood
		4	10:20-11:35	Tu Th	Gym	Miss Wood
222-1	Golf	T5	1:10-2:35	Tu Th	Gym 114	Staff
		1	7:30-8:45	Tu Th	Gym 114	Miss Stehr
		2	8:55-10:10	M W	Gym 114	Miss Davies
		3	10:20-11:35	W F	Gym 114	Miss Thorpe
		4	11:45-1:00	M W	Gym 114	Miss Stehr
		5	11:45-1:00	Tu Th	Gym 114	Miss Thorpe
		T6	1:10-2:25	W F	Gym 114	Staff
319-4	Teaching Elementary School Activities	1	7:30-8:45	M WThF	Gym 114	Miss Zimmerman
		2	10:20-11:35	MTuWTh	Gym 114	Miss Stehr
353-4	Organization and Administration of Physical Education	T3	2:35-3:50	MTuWTh	M 110	Staff
		T1	7:30-8:45	MTuWTh	Gym 206	Miss Davies
362-1 to 4	Teaching Basic Activities to Junior and Senior High School Girls					
	Basic Body Movement (June 19-23)	T1	1:10-4:00	MTuWTh	Gym	Staff
	Dance (June 26-30)	T2	1:10-4:00	MTuWTh	Gym	Staff
	Badminton and Recreational Games (July 3-7)	T3	1:10-4:00	MTuWTh	Gym	Staff
	Softball (July 10-14)	T4	1:10-4:00	MTuWTh	Gym	Staff
400-4	Evaluation in Physical Education	1	10:20-11:35	MTuWTh	Gym 203	Mr. Shea
404-4	Teaching of Sports	1	7:30-8:45	MTuWTh	Gym 204	Miss Davies
420-3	Physiological Effects of Motor Activities (June 19-July 14)	1	1:10-4:00	MTuWTh	Gym 203	Mr. Bender
500-4	Techniques of Research	1	8:55-10:10	MTuWTh	Gym 204	Miss Zimmerman
525-1 to 6	Readings in Physical Education	1	To be arranged			Staff
599-3 to 9	Thesis	1	To be arranged			Staff
PHYSICS (PHYS)						
101-4	Survey Course	1	8:55-10:10	MTuW F	P 308	Mr. Revak
			7:30-10:10	Th	P 317	
		2	11:45-1:00	M WThF	P 309	Mr. Revak
			10:20-1:00	Tu	P 317	
		T3	10:20-11:35	MTuWTh	P 309	Miss Zimmerschied
			10:20-1:00	F	P 317	
		T4	7:30-8:45	MTuWTh	P 309	Mr. Collins
			7:30-10:10	F	P 317	
102-4	Survey Course	1	7:30-8:45	M WThF	P 308	Miss Zimmerschied
			7:30-10:10	Tu	P 317	
		2	10:20-11:35	MTu ThF	P 308	Mr. Harbison
			10:20-1:00	W	P 317	
		T3	11:45-1:00	MTuW F	P 308	Mr. Collins
			10:20-1:00	Th	P 317	
312-5	Radio	1	7:30-8:45	MTuW F	P 301	Mr. Harbison
			7:30-10:10	Th	P 318	
410-5	Physical Optics	1	8:55-10:10	MTuWThF	P 309	Mr. Arvin
			7:30-8:45	Tu Th	P 302	
420-2 to 5	Special Projects I	1	To be arranged			Staff
520-2 to 5	Special Projects II	1	To be arranged			Staff
590-1 to 9	Physics Thesis	1	To be arranged			Staff

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
PHYSIOLOGY (PHSL)						
209-5	Introduction to Physiology	1	8:55-10:10 8:55-11:35	M W F Tu Th	LS G-16 LS G-113	Mr. Cass
414-4	Anatomy and Physiology of Speech and Hearing Mechanics	1	7:30-8:45	M W F	LS G-16	Staff
440-3	Electron Microscopy	1	7:30-10:10	Tu	LS 113 LS 118	Mr. Kaplan
599-3	Thesis	1	To be arranged	Th	Labs	Mr. Kaplan and Mr. Cass
PLANT INDUSTRIES (PL I)						
304-3	Landscape Gardening	1	8:55-10:10	MTu ThF	Ag 195	Mr. Tucker
390-1 to 3	Special Studies in Plant Industries	1	To be arranged			Staff
407-3	Fertilizers and Soil Fertility (June 19-July 14)	1	10:20-1:00	M W F	Ag 166	Mr. Vavra
520-1 to 6	Readings	1	To be arranged			Staff
575-1 to 6	Research	1	To be arranged			Staff
599-1 to 9	Thesis	1	To be arranged			Staff
PRINTING AND PHOTOGRAPHY (P & P)						
260A-3 ¹	Beginning Photography	1	8:55-10:10 1:00-3:50	MTuWTh M W	T-27 R 100 Ag 140	Mr. Horrell
		2	7:30-8:45	MTuWThF	LG	Mr. Anderson
314B-3	Bindery	1	8:55-10:10	M W F	T-48	Mr. Modlin
341A-3	Cinematography I	1	1:00-2:50	M W F	T-27 R 100	Mr. Mercer
344A-1 to 3	Workshop in Cinema Production	1	To be arranged			Mr. Paine
390A-2 to 6	Problems in Still Photography and Cinematography	1	To be arranged			Staff
¹ Cross-listed with Journalism						
PSYCHOLOGY (PSYC)						
201-4	Introductory Psychology	1	7:30-8:45	MTuWTh	Ag 153	Staff
		2	8:55-10:10	MTuWTh	Ag 224	Mr. Carrier
		3	10:20-11:35	MTuWTh	Ag 168	Staff
		4	11:45-1:00	MTuWTh	Ag 224	Staff
		T5	1:10-2:25	MTuWTh	Ag 224	Mr. Carrier
		T6	8:55-10:10	MTuWTh	Ag 172	Staff
		T7	10:20-11:35	MTuWTh	Ag 172	Mr. Martire
301-4	Child Psychology	1	7:30-8:45	MTuWTh	Ag 146	Mr. Schaeff
		2	10:20-11:35	MTuWTh	T-40 R 114	Miss Rafferty
303-3	Adolescent Psychology	1	8:55-10:10	MTuWTh	Ag 218	Staff
305-4	Personality Dynamics	1	10:20-11:35	MTuWTh	M 202	Mr. Martire
311-4	Experimental Psychology I	1	8:55-11:35	Tu Th	1015 S Forest	Mr. Wagman
320-4	Introduction to Industrial Psychology	1	7:30-8:45	MTuWTh	Ag 218	Mr. Westberg
321-4	Psychological Tests and Measurements	1	10:20-11:35	MTuWTh	Ag 218	Staff
420-3	Scientific Methodology in Psychology	1	To be arranged		1015 S Forest	Mr. Applezweig
432-4	Mental Hygiene	1	10:20-11:35	MTuWTh	M 203	Mr. Kelley
		T2	8:55-10:10	MTuWTh	Ag 168	Mr. Kelley
490-1 to 4	Independent Projects	1	To be arranged			Staff

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
PSYCHOLOGY (PSYC) (Continued)						
523-2	Research Seminar	1	To be arranged			Staff
554-2	Theoretical Approaches to the Study of the Child	1	11:45-1:00	M W	Ag 218	Miss Rafferty
590A-1 to 12	Readings-General Psychology	1	To be arranged			Staff
590B-1 to 12	Readings-Experimental Psychology	1	To be arranged			Staff
590D-1 to 12	Readings-Personality	1	To be arranged			Staff
590E-1 to 12	Readings-Clinical Psychology	1	To be arranged			Staff
590F-1 to 12	Readings-Counseling Psychology	1	To be arranged			Staff
590G-1 to 12	Readings-Social Psychology	1	To be arranged			Staff
590H-1 to 12	Readings-Industrial Psychology	1	To be arranged			Staff
590J-1 to 12	Readings-Child Psychology	1	To be arranged			Staff
590K-1 to 12	Readings-School-Community Mental Health Psychology	1	To be arranged			Staff
591B-1 to 12	Research-Experimental Psychology	1	To be arranged			Staff
591D-1 to 12	Research-Personality	1	To be arranged			Staff
591E-1 to 12	Research-Clinical Psychology	1	To be arranged			Staff
591F-1 to 12	Research-Counseling Psychology	1	To be arranged			Staff
591J-1 to 12	Research-Child Psychology	1	To be arranged			Staff
593E-1 to 12	Practicum-Clinical Psychology	1	To be arranged			Mr. Tyler
593H-1 to 12	Practicum-Industrial Psychology	1	To be arranged			Mr. Westberg
593L-1 to 12	Practicum-Teaching of Psychology	1	To be arranged			Mr. Carrier
593M-1 to 18	Practicum-Rehabilitation	1	To be arranged			Mr. Renzaglia
593N-1 to 18	Practicum-Rehabilitation Counseling	2	To be arranged			Mr. Renzaglia
595A-2	Advanced Seminar-Clinical Psychology	1	To be arranged			Mr. Doleys
595D-2	Advanced Seminar-Industrial Psychology	1	To be arranged		1009 S Forest	Staff
599-1 to 9	Master's Thesis	1	To be arranged			Staff
600-1 to 12	Doctoral Dissertation	1	To be arranged			Staff

¹ Cross-listed with Guidance

RADIO-TELEVISION (R-T)

161-4	Radio-TV Speaking	1	7:30-8:45	MTu ThF	RadS A	Staff
		2	1:10-2:25	MTu ThF	RadS A	Staff
251-2	Survey of Broadcasting	1	10:20-11:35	Tu Th	T-38 R 103	Mr. Criminger
257-4	Fundamentals of Broadcast Writing	1	10:20-11:35	TuWThF	A 106	Mr. Holman
351-5	Programs and Audiences	1	2:35-3:50	MTuWThF	T-38 R 101	Mr. Ripley
352-4	Laws and Policies	1	8:55-10:10	MTu ThF	T-38 R 101	Mr. Ripley
353-2	Radio and Television in Education	1	10:20-11:35	Tu Th	A 102	Staff
355-3	Broadcast Persuasion Factors	1	11:45-1:00	M W F	T-38 R 101	Mr. Ripley
361-2	Television Announcing	1	7:30-8:45	Tu Th	RadS B	Mr. Uray
368-3	Fundamentals of Television Production	1	10:20-1:10	M W F	RadS A	Mr. Uray
373-1 to 5 ¹	Advanced Production Laboratory	1	To be arranged		RadS	Staff
375A-4	News casting	1	11:45-1:00	MTuW F	RadS B	Mr. Mofield
375G-3	Advertising and Sales	1	2:35-3:50	TuW F	T-38 R 102	Mr. Mofield
375J-1 to 4	Individual Research Problems	1	To be arranged		RadS	Staff
394-5	Television Station Management	1	1:10-2:25	MTuWThF	T-38 R 101	Mr. Robbins

¹ Registrants must secure consent of department.

RECREATION AND OUTDOOR EDUCATION (REC)

201-4	Introduction to Recreation Leadership	1	7:30-8:45	MTuWTh	Office	Mr. O'Brien
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Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
RECREATION AND OUTDOOR EDUCATION (REC) (Continued)						
301-4	Programs in School Camping and Outdoor Education	1	To be arranged		LG	Staff
305-4	Maintenance and Repair of Recreation Areas, Facilities, and Equipment	1	To be arranged		LG	Staff
310-3	Social Recreation	1	To be arranged		LG	Staff
311-2 to 6	Camp Leadership (July 10-21)	1	To be arranged		LG-Camp I	Staff
		2	To be arranged		LG-Camp II	Staff
		3	To be arranged		LG-Camp III	Staff
312-2	Playground Leadership Workshop (June 14-17)	1	To be arranged		LG	Staff
312-2 to 6	Playground Leadership	2	To be arranged		LG	Staff
314-2 to 6	Institutional Recreation Leadership	1	To be arranged		LG	Staff
315-4	Recreational Dramatics	1	To be arranged		LG	Mr. Taylor
450-4	Principles and Interpretations of Recreation	1	8:55-10:10	MTuWTh	Office	Mr. O'Brien
480-4	Techniques in Camping	1	To be arranged		LG	Staff
510-4	School Camping and Outdoor Education Workshop (July 10-21)	1	To be arranged		LG	Mr. Taylor
510-2 to 6	School Camping and Outdoor Education Workshop	2	To be arranged		Nat'l Camp, Pa.	Mr. Sharp
		3	To be arranged		Nat'l Camp, Pa.	Mr. Sharp
		4	To be arranged		Nat'l Camp, Pa.	Mr. Sharp
		5	To be arranged		Nat'l Camp, Pa.	Mr. Sharp
550-2 to 6	Field Problems-Community Recreation	1	10:20-11:35	MTuWTh	Office	Mr. Freeberg

REHABILITATION COUNSELING (R C)

Students interested in graduate work in this field should consult Mr. Guy A. Renzaglia, Director, Rehabilitation Institute. Offices are located at 603 West Grand.

RELIGIOUS EDUCATION (R ED)

326-3	The Teachings of Miracles	1	8:55-10:10	M W F	BF	Mr. Johnson
345-3	Christian Principles for Teachers	1	7:30-8:45	M W F	BF	Mr. Hall

RUSSIAN STUDIES (RU ST)

Students interested in a minor in Russian studies should consult Mr. John J. Wuest, administrator and academic adviser for the program.

SECONDARY EDUCATION (S ED)

310-4	Principles of Secondary Education	1	8:55-10:10	TuWThF	HEc 118	Mr. Fligor
		2	10:20-11:35	TuWThF	HEc 122	Mr. Fligor
315-3	High School Methods	1	7:30-8:45	M W F	USch 41	Mr. Mees
375-2 to 3	Readings in Secondary Education	1	To be arranged			Mr. Dykhous
401-4	Aero-Space Education Workshop (August 14-25)	1	8:55-11:35 1:10-3:50	MTuWThF	HEc 201	Staff
450-4 to 14	Field Training in Community Development Methods	1	To be arranged			Mr. Franklin
469-4	Junior High School Curriculum and Administration: Workshop (June 19-30)	1	8:55-11:35 1:10-3:50	MTuWThF	Ag 216	Mr. Nelson
490-4 ¹	Economic Education Workshop (July 3-14)	1	8:55-11:35 1:10-3:50	MTuWThF	Ag 216	Mr. Cochran

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
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SECONDARY EDUCATION (S ED) (Continued)

507-2 to 4 ²	Readings in Reading	1	To be arranged			
522-3 ²	Diagnosis and Correction of Reading Disabilities II	1	8:55-10:10	MTuWTh	T-40 R 101, 102	
560-2 ³	New Developments in Industrial Education (The Area Technical School of the Future) (June 20-23 and 26-29)	1	10:20-11:35 1:10-2:25	TuWThF (June 20-23) MTuWTh (June 26-29)	HEc 208	Mr. Stephens
560-2 ³	New Developments in Industrial Education (Comparative Industrial Education with Emphasis on Russian Education) (July 3-7 and 10-13)	2	10:20-11:35 1:10-2:25	M WThF (July 3-7) MTuWTh (July 10-13)	HEc 208	Mr. Arnold
560-2 ³	New Developments in Industrial Education (Professional Writing for Publication) (July 18-21 and 24-27)	3	10:20-11:35 1:10-2:25	TuWThF (July 18-21) MTuWTh (July 24-27)	HEc 208	Mr. Nichols
560-2 ³	New Developments in Industrial Education (Industrial Education in the 1970's) (August 1-4 and 7-10)	4	10:20-11:35 1:10-2:25	TuWThF (August 1-4) MTuWTh (August 7-10)	HEc 208	Mr. Hostetler
562-4	Workshop: High School Curriculum	1	10:20-11:35	MTuWTh	HEc 118	Staff
564-4	High School Principal	1	1:10-2:25	MTuWTh	HEc 102	Mr. Dykhous
575A-4	Individual Research-Curriculum	1	To be arranged			Staff
575B-4	Individual Research-Supervision	1	To be arranged			Staff
575C-4	Individual Research-Language Arts	1	To be arranged			Staff
575D-4	Individual Research-Science	1	To be arranged			Staff
575E-4	Individual Research-Reading	1	To be arranged			Staff
575F-4	Individual Research-Social Studies	1	To be arranged			Staff
575G-4	Individual Research-Secondary Education	1	To be arranged			Staff
575H-4	Individual Research-Higher Education	1	To be arranged			Staff
575J-4	Individual Research-Junior College	1	To be arranged			Staff
596-5 to 9	Independent Investigation	1	To be arranged			Staff
597-1 to 3	Thesis	1	To be arranged			Staff
598-1 to 3	Thesis	1	To be arranged			Staff
599-1 to 3	Thesis	1	To be arranged			Staff

600-1 to 14	Dissertation	1	To be arranged			Staff
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PRACTICE TEACHING

Secondary Student Teaching 352a-4 to 14, 352b-4 to 14, 352c-4 to 14—To be arranged

¹ Cross-listed with Economics. There will be one extra session on Saturday, July 8.

² Cross-listed with Elementary Education

³ Cross-listed with Industrial Education

SECRETARIAL AND BUSINESS EDUCATION (SEC)

102-3	Typewriting I	1	10:20-11:35	MTuW F	T-32 R 103	Mrs. Lockwood
103-3	Typewriting II	1	10:20-11:35	MTuW F	T-32 R 103	Mrs. Lockwood
104-3	Typewriting III	1	8:55-10:10	MTuWTh	T-32 R 103	Mr. Rahe
106-4	Shorthand II	1	11:45-1:00	M WThF	T-32 R 103	Mrs. Lockwood
107-4	Shorthand III	1	11:45-1:00	M WThF	T-32 R 103	Mrs. Lockwood
213-3	Typewriting IV	1	8:55-10:10	MTuWTh	T-32 R 103	Mr. Rahe
216-4	Shorthand IV	1	7:30-8:45	TuWThF	T-32 R 103	Mr. Buboltz
308-4	Transcription	1	7:30-8:45	TuWThF	T-32 R 103	Mr. Buboltz
403-3	Teaching Typewriting	1	7:30-8:45	M W F	T-32 R 103 T-32 R 104	Mrs. Lockwood Mrs. Lockwood
405-3	Teaching Basic (General) Business	1	11:45-1:00	MTu Th	T-32 R 104	Mr. Rahe

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
SECRETARIAL AND BUSINESS EDUCATION (SEC) (Continued)						
500-2 to 5	Readings in Business	1	To be arranged		T-32 R 115	Mr. Buboltz
506-4	Principles and Problems of Business Education	1	10:20-11:35	TuWThF	T-32 R 104	Mr. Buboltz

SMALL BUSINESS INSTITUTE (S B I)

Students interested in a program of studies in this field should consult Mr. Ralph Bedwell, Director, Small Business Institute. Offices are located at 801 West Mill.

SOCIOLOGY (SOC)

101-5	Introductory Sociology	1	7:30-8:45	MTuWThF	M 102A	Staff
		T2	7:30-8:45	MTuWThF	HEc 303	Staff
		3	8:55-10:10	MTuWThF	M 102A	Staff
		T4	8:55-10:10	MTuWThF	HEc 303	Staff
		5	10:20-11:35	MTuWThF	M 102A	Mr. Vander Wiel
		T6	10:20-11:35	MTuWThF	HEc 303	Staff
		T7	11:45-1:00	MTuWThF	M 102A	Staff
333-4	Community Organization	1	8:55-10:10	TuWThF	HEc 302	Mr. Rennie
340-4	The Family	1	8:55-10:10	MTuWTh	HEc 201	Miss Snyder
373-4	Juvenile Delinquency	1	7:30-8:45	TuWThF	HEc 102	Mr. Petroff
380-4	Introduction to Social Work	1	8:55-10:10	MTuWTh	HEc 102	Mr. Vander Wiel
426-4	Social Factors in Behavior and Personality	1	10:20-11:35	TuWThF	HEc 102	Mr. Campisi
591-2 to 6	Individual Research	1	To be arranged			Mr. Campisi
596-4	Readings in Sociology	1	To be arranged			Mrs. Snyder
599-2 to 9	Thesis	1	To be arranged			Staff

SPECIAL EDUCATION (SP E)

410-4	Problems of Mentally Retarded	1	7:30-8:45	MTuWTh	HEc 306	Mr. Frey
412-4	The Gifted Child (Workshop) (July 17-28)	1	8:00-3:00	MTuWThF	USch	Mr. Kolstoe
413-4	Directed Observation	1	8:55-10:10	MTuWTh	HEc 122	Mr. Frey
414-4	Exceptional Child	1	8:55-10:10	MTuWTh	HEc 306	Miss McKay
419-4 ¹	Communication Problems of the Deaf and Hard of Hearing	1	11:00-12:00	MTu ThF	Little Giant Camp	Staff
420-4	Methods and Materials for Teaching Exceptional Children	1	7:30-8:45	MTuWTh	USch	Mr. Rainey
428-4 ¹	Speech Correction for Classroom Teachers	1	8:55-10:10	MTu ThF	LS 205	Staff
501-4	Special Research Problems	1	To be arranged			Staff
513-4	Organization and Administration of Special Classes	1	8:55-10:10	MTuWTh	M 203	Mr. Kolstoe
577-4 to 12	Practicum	1	7:30-8:45	MTuWTh	USch	Miss McKay and Mr. Kolstoe
596-2 to 9	Independent Investigation	1	To be arranged			Staff
599-2 to 9	Thesis	1	To be arranged			Staff

¹ Cross-listed with Speech Correction

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
SPEECH (SPCH)						
101-4	Principles of Speech	1	7:30-8:45	MTu ThF	T-38 R 102	Staff
		2	8:55-10:10	MTu ThF	T-38 R 102	Staff
		3	10:20-11:35	MTuWTh	T-38 R 102	Staff
		4	11:45-1:00	MTu ThF	T-38 R 102	Staff
		5	1:10-2:25	MTu ThF	P 111	Staff
		6	7:30-8:45	MTuWTh	T-38 R 101	Staff
		7	8:55-10:10	MTu ThF	P 111	Staff
		8	10:20-11:35	MTuWTh	T-38 R 101	Staff
		T9	11:45-1:00	MTu ThF	T-38 R 103	Staff
		T10	1:10-2:25	MTuWTh	T-38 R 103	Staff
417-4	Contemporary Public Address	1	To be arranged			Mr. Bradley
427-4	The Forensic Program	1	To be arranged			Mr. Potter
500-4	Classical Rhetoric	1	To be arranged			Mr. Micken
508-4	Seminar: Studies in Discussion	1	To be arranged			Mr. Potter
530-1 to 4	Research Problems	1	To be arranged			Staff
532-4	Area and Techniques of Research	1	To be arranged			Mr. Bradley
599-2 to 9	Thesis	1	To be arranged			Staff
600-0 to 12	Dissertation	1	To be arranged			Staff
SPEECH CORRECTION (SP C)						
100-0 to 2	Speech Clinic	1	To be arranged		1020 S Lake	Staff
319-4	Stuttering	1	7:30-8:45	MTu ThF	1020 S Lake	Mr. Brutton
400-1 to 4	Independent Study in Speech	1	To be arranged		1020 S Lake	Mr. Koepp-Baker
405C-0 to 4	Correction and Audiology	1	To be arranged		1020 S Lake	Mr. Gregory
	Hearing Therapy					
406-4	Techniques and Interpretation	1	1:10-2:25	MTu ThF	1004 S Lake	Mr. Atkinson
	of Hearing Tests					
412-4	Cerebral Palsy	1	2:35-3:50	MTu ThF	1020 S Lake	Mr. Gregory
414-4 ¹	Anatomy and Physiology of Speech	1	7:30-8:55	M W F	LS G-16	Mr. Kaplan
	and Hearing Mechanics		Laboratory to be arranged			
419-4 ²	Communication Problems of the	1	11:00-12:00	MTu ThF	Little Giant Camp	Mr. Brutton
	Deaf and Hard of Hearing					
428-4 ²	Speech Correction for the	1	8:55-10:10	MTu ThF	LS 205	Mr. Hoshiko
	Classroom Teacher					
515-1 to 4	Readings in Speech Pathology	1	To be arranged		1020 S Lake	Mr. Brackett
520-1 to 4	Seminar in Hearing	1	10:00-12:00	M Th	1004 S Lake	Mr. Atkinson
521-1 to 4	Seminar in Articulation and	1	10:00-12:00	Tu F	1020 S Lake	Mr. Brackett
	Delayed Speech					
522-1 to 4	Seminar in Organic Speech	1	1:00-3:00	M Th	1020 S Lake	Mr. Koepp-Baker
	Problems					
530-1 to 4	Research Problems in Speech	1	To be arranged		1020 S Lake	Staff
	Correction					
534-1 to 4	Seminar in Instrumentation	1	1:00-3:00	Tu F	1004 S Lake	Mr. Hoshiko
599-1 to 4	Thesis	1	To be arranged		1020 S Lake	Staff
600-1 to 4	Dissertation	1	To be arranged		1020 S Lake	Staff

¹ Cross-listed with Physiology

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
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THEATER (THEA)

322-12	Theater Practicum	1	To be arranged		Play	Staff
519-12	Theater Practicum	1	To be arranged		Play	Staff
526-3	Seminar in Theater	1	1:10-2:25	MTu ThF	T-38 R 102	Mr. Abrams
530-1 to 4	Research Problems	1	To be arranged		Play	Staff
599-1 to 9	Thesis	1	To be arranged		Play	Staff

TRANSPORTATION INSTITUTE (T I)

Students interested in this field should consult Mr. Alexander R. MacMillan, Director, Transportation Institute. Offices are located at 309 Harwood Avenue.

ZOOLOGY (ZOO)

100-5	Principles of Animal Biology	1	10:20-11:35	M W F	LS 133	Mr. Banks
100A-0	Zoology Laboratory	1	8:55-11:35	Tu Th	LS 132	Miss Stein
		2	8:55-11:35	Tu Th	LS 130	Miss Morin
		3	1:10-3:50	M W	LS 132	Miss Stein
		4	1:10-3:50	M W	LS 130	Mr. Klemm
322-2 to 5	Problems in Zoology	1	To be arranged			Staff
402-4	Natural History of Invertebrates (National Science Foundation)	1	2:35-3:50	M W	LS 205	Mr. Garoian
			1:10-3:50	Tu Th	LS 213	Mr. Garoian
		2	2:35-3:50	M W	LS 205	Mr. Garoian
			7:30-10:10	Tu Th	LS 208	Mrs. Stickel
403-4	Natural History of Vertebrates (National Science Foundation)	1	7:30-8:45	Tu Th	LS 205	Mr. Gersbacher
			7:30-10:10	M W	LS 204	Mr. Gersbacher
407-5	Parasitology	1	1:10-2:25	M W	LS 208	Mr. Garoian
			1:10-3:50	Tu ThF	LS 209	Mr. Garoian
501-4	Animal Biology for High School Teachers of Biology (National Science Foundation)	1	10:20-11:35	M W	LS 213	Mr. Stains
			8:55-11:35	Tu Th	LS 213	
502-2	Recent Developments in Biological Science (National Science Foundation)	1	1:10-2:35	W F	LS 205	Staff
579-4	Animal Behavior	1	8:55-10:10	Tu Th	LS 204	Mr. Banks
			7:30-10:10	M W	LS 213	Mr. Banks
580-4	Advanced Systematics	T1	10:20-11:35	MTuWTh	LS 205	Mr. Blackwelder
596-3 to 12	Special Research in Zoology	1	To be arranged			Staff
599-2 to 9	Master's Research and Thesis	1	To be arranged			Staff
600-3 to 12	Doctoral Research and Thesis	1	To be arranged			Staff

VOCATIONAL-TECHNICAL INSTITUTE (VTI)

101A-5	Automotive Engines	1	7:30-11:35	MTuWThF	Bldg 2 Auto Shop	Mr. Willey
125A-5	Theory of Internal Combustion Engines	1	1:10-2:25	MTuWThF	Bldg 2 Auto Shop	Mr. Willey
101B-7	Accounting I	1	7:30-10:10	MTuWThF	C-3	Mr. Cundiff
104B-5	Secretarial Accounting	1	11:45-1:00	MTuWThF	C-14	Staff
202B-4	Cost Accounting I	1	1:10-2:25	MTuWThF	C-3	Mr. Cundiff
227B-5	Office Administration and Supervision	1	10:20-11:35	MTuWThF	C-5	Mr. Hill
229B-2	Record Keeping	1	8:55-10:10	MTuWThF	C-14	Mr. Vaughn
		2	1:10-2:25	MTuWThF	C-14	Mr. Vaughn

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
VOCATIONAL-TECHNICAL INSTITUTE (VTI) (Continued)						
104C-10	Cosmetology Laboratory IV	1	7:30-11:00	MTuWThF	C-1	Mrs. Cochran
		2	11:00-2:30	MTuWThF	C-1	Mrs. York
		3	2:30-6:00	MTuWThF	C-1	Wilson
146D-3	Architectural Rendering I	1	7:30-11:35	Tu Th	Annex	Mr. Lougeay
147D-3	Architectural Rendering II	1	7:30-11:35	Tu Th	Annex	Mr. Lougeay
148D-3	Architectural Rendering III	1	7:30-11:35	Tu Th	Annex	Mr. Lougeay
151D-3	Materials and Methods of Construction	1	1:10-3:50	Tu Th	T-7	Mr. Lougeay
175D-3	Technical Drafting I	1	1:10-2:25	MTuWThF	Apt Lab	Staff
176D-3	Technical Drafting II	1	1:10-2:25	MTuWThF	Apt Lab	Staff
177D-3	Technical Drafting III	1	1:10-2:25	MTuWThF	Apt Lab	Staff
201D-7	Machine Drafting and Design IV	1	7:30-11:35	MTuWThF	Apt Lab	Mr. Nagel
220D-6	Architectural Design II	1	7:30-1:00	M W F	T-7	Mr. Lougeay
225D-3	Machine Drafting and Design Theory IV	1	11:45-1:00	M W F	Apt Lab	Mr. Nagel
247D-4	Mechanics and Strength of Materials	1	1:10-2:25	M W F	T-6	Mr. Lougeay
100G-3	English Fundamentals	1	1:10-2:25	MTuWThF	C-8	Mrs. Morris
104G-5	Mathematics Fundamentals	1	2:35-3:50	MTuWThF	C-6	Staff
111G-4	Basic Physics I	1	1:10-2:25	MTuWTh	U-2	Mr. Collins
			2:25-3:50	Tu Th	U-1	
116G-4	Principles of Speech	1	10:20-11:35	MTuWTh	C-7	Staff
121G-5	Problems of American Democracy	1	1:10-2:25	MTuWThF	C-5	Miss Danielson
142G-4	Psychology of Human Relations	1	2:35-3:50	MTuWTh	C-7	Mr. McCarty
103J-7	Print Shop III	1	7:30-11:35	MTuWThF	Bldg 2 Print Lab	Mr. Brown
127J-3	Print Shop Theory III	1	1:10-2:25	M W F	Bldg 2 Print Lab	Mr. Brown
101K-3	Calculating Machines I	1	10:20-11:35	MTuWThF	C-9	Mr. Johnston
103K-3	Calculating Machines III	1	8:55-10:10	MTuWThF	C-9	Mr. Johnston
101M-7	Lathe and Bench Work Laboratory	1	7:30-11:35	MTuWThF	Bldg 1 Mach Lab	Staff
103M-7	Precision Measuring Laboratory	1	7:30-11:35	MTuWThF	Bldg 1 Mach Lab	Staff
125M-5	Lathe and Bench Work Theory	1	11:45-1:00	MTuWThF	Bldg 1 Clrm	Staff
127M-3	Precision Measurements	1	11:45-1:00	M W F	Bldg 1 Clrm	Mr. Muhich
175M-3	Machine Shop Practice I	1	11:45-1:00	MTuWThF	Bldg 1 Mach Lab	Mr. Muhich
201M-7	Milling Machine Laboratory	1	7:30-11:35	MTuWThF	Bldg 1 Mach Lab	Mr. Muhich
102P-3	Nursing Practice and Theory II	1	8:00-12:00	M	V-2	Mrs. Mitchell
			1:00-4:00	M W F	V-2	Mrs. Mitchell
			8:00-9:00	Tu Th	V-2	Mrs. Christensen
			11:00-12:00	Tu	V-2	Mrs. Christensen
			10:00-11:00	Tu	V-2	Mrs. Mitchell
			2:00-4:00	Tu Th	V-2	Mrs. Mitchell
			8:00-10:00	W F	Hospital	Mrs. Mitchell
			10:00-12:00	Th	V-2	Mrs. Mitchell
103P-4	Clinical Theory and Practice I	1	2:00-4:00	Tu Th	V-2	Mrs. Mitchell
105P-8	Clinical Theory and Practice III	1	To be arranged	W F	Hospital	Mrs. Borgsmiller
			1:00-3:00		V-4	
133P-1	Health II	1	To be arranged	Tu Th	Hospital	Mrs. Mitchell
			9:00-10:00		V-2	
201R-4 to 20	Co-operative Work Experience	1	To be arranged			Mr. Elder
		2	To be arranged			Mrs. Burnett
		3	To be arranged			Mr. Moore

Course No. & Hours	Title	Sec. No.	Time	Days	Building & Room	Instructor
VOCATIONAL-TECHNICAL INSTITUTE (VTI) (Continued)						
102S-3	Typewriting II	1	1:10-2:25	MTuWThF	C-4	Mr. Johnston
204S-5	Shorthand Dictation I	1	7:30-8:45	MTuWThF	C-15	Staff
206S-5	Shorthand Dictation II	1	1:10-2:25	MTuWThF	C-15	Staff
207S-2	Transcription I	1	8:55-10:10	MTuWThF	C-15	Staff
220S-2	Transcription II	1	2:35-3:50	MTuWThF	C-15	Staff
103T-7	Circuit Analysis I	1	7:30-11:35	MTuWThF	U-6	Mr. Schultz
127T-5	Principles of Analysis and Diagnosis I	1	1:00-2:25	MTuWThF	U-7	Mr. Schultz
201T-5	Circuit Analysis II	1	7:30-10:10	MTuWThF	U-8	Mr. Green
225T-5	Principles of Analysis and Diagnosis II	1	10:20-11:35	MTuWThF	U-7	Mr. Green
101W-7	Oxy-Acetylene Welding Shop	1	7:30-11:35	MTuWThF	Weld Shop	Mr. Dallman
125W-3	Oxy-Acetylene Welding Theory	1	1:10-2:35	M W F	Bldg 4 Clrm	Mr. Griswold
103Y-9	Complete Denture Construction	1	7:30-11:35	MTuWThF	Dental Lab	Mr. Joy
			1:10-3:50	MTuWThF	Dental Lab	Mr. Joy
128Y-2	Oral Anatomy	1	1:10-2:25	M W F	Dental Clrm	Mr. Webber

PLEASE PREPARE a tentative program on this form to be presented to your adviser at the time of your appointment.

Student Now? _____ New Student? _____ Returning Student? _____

[illegible]



Southern Illinois University Foundation

The Southern Illinois University Foundation is a nonprofit corporation chartered by the state and authorized by the Board of Trustees to receive gifts for the benefit of the University, to buy and sell property, and otherwise to serve the University.

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Southern Illinois University

Bulletin



Schedule of Classes

CARBONDALE CAMPUS 1961-62

Objectives of Southern Illinois University

TO EXALT BEAUTY

IN GOD,
IN NATURE,
AND IN ART;
TEACHING HOW TO LOVE THE BEST
BUT TO KEEP THE HUMAN TOUCH;

TO ADVANCE LEARNING

IN ALL LINES OF TRUTH
WHEREVER THEY MAY LEAD,
SHOWING HOW TO THINK
RATHER THAN WHAT TO THINK,
ASSISTING THE POWERS
OF THE MIND
IN THEIR SELF-DEVELOPMENT;

TO FORWARD IDEAS AND IDEALS

IN OUR DEMOCRACY,
INSPIRING RESPECT FOR OTHERS
AS FOR OURSELVES,
EVER PROMOTING FREEDOM
WITH RESPONSIBILITY;

TO BECOME A CENTER OF ORDER AND LIGHT

THAT KNOWLEDGE MAY LEAD
TO UNDERSTANDING
AND UNDERSTANDING
TO WISDOM.

1961-1962 Schedule of Classes

Fall, Winter, and Spring Quarters



SOUTHERN ILLINOIS UNIVERSITY BULLETIN
Volume 3 Number 3 March, 1961
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Southern Illinois University.

The following issues of the *Southern Illinois University Bulletin*
may be obtained without charge from General Publications,
Southern Illinois University, Carbondale, Illinois.

General Information
Summer Session
Schedule of Classes
Graduate School
College of Education
College of Liberal Arts and Sciences
School of Agriculture
School of Applied Science
School of Business
School of Communications
School of Fine Arts
School of Home Economics
University Institutes
Division of Technical and Adult Education

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This Bulletin

contains the schedule of classes to be offered on the Carbondale and Vocational-Technical Institute campuses for the fall, winter, and spring quarters of the 1961-62 school year. It also provides information relative to advisement and registration. It does not cover all questions concerning Southern Illinois University. For complete information about the University the prospective student should refer to the General Information bulletin.

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University Calendar, 1961-1962

SUMMER SESSION

Session Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Final Examinations	Wednesday–Thursday, August 9–10
Commencement	Friday, August 11

FALL QUARTER

New Student Week	Sunday–Tuesday, September 17–19
Quarter Begins	Wednesday, September 20
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 22–27
Final Examinations	Monday–Saturday, December 11–16

WINTER QUARTER

Quarter Begins	Tuesday, January 2
Final Examinations	Monday–Saturday, March 12–17

SPRING QUARTER

Quarter Begins	Monday, March 26
Memorial Day Holiday	Wednesday, May 30
Final Examinations	Wednesday–Tuesday, June 6–12
Commencement	Wednesday, June 13

Summer classes will begin on Tuesday, June 20. During the fall, winter, and spring quarters, day classes will begin on the second day of the quarter. Evening classes (5:45 P.M. or later) will begin on the first day of the quarter.

University Calendar, 1962-1963

SUMMER SESSION*

Session Begins	Monday, June 18
Independence Day Holiday	Wednesday, July 4
Final Examinations	Wednesday–Thursday, August 8–9
Commencement	Friday, August 10

SUMMER QUARTER*

Quarter Begins	Monday, June 18
Independence Day Holiday	Wednesday, July 4
Quarter Ends	Friday, August 31

FALL QUARTER

New Student Week	Friday–Sunday, September 21–23
Quarter Begins	Monday, September 24
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 21–26
Final Examinations	Wednesday–Tuesday, December 12–18

WINTER QUARTER

Quarter Begins	Wednesday, January 2
Final Examinations	Wednesday–Tuesday, March 13–19

SPRING QUARTER

Quarter Begins	Wednesday, March 27
Memorial Day Holiday	Thursday, May 30
Final Examinations	Thursday–Wednesday, June 6–12
Commencement	Thursday, June 13

Summer classes will begin on Tuesday, June 19. During the fall, winter, and spring quarters, day classes will begin on the second day of the quarter. Evening classes (5:45 P.M. or later) will begin on the first day of the quarter.

* Provision has been made for either an eight-week summer session or a regular summer quarter. The one to be followed will not be known until after the Illinois General Assembly acts on the University's budget during the 1961 legislative session.

Calendar of Events, 1961-1962

This calendar contains all the dates and events within the official University Calendar. It also lists certain test dates and a few other all-university events which are of importance to students. Most of the dates shown are related to the academic program. This calendar does not attempt to duplicate the yearly Campus Dates Calendar sponsored by Girls' Rally or the monthly calendar published by the University, both of which are all-events calendars.

SEPTEMBER

- 15 Friday. Freshman testing, 8:30 A.M.-5:00 P.M., Shryock Auditorium.
- 17 Sunday. New Student Week begins.
- 19 Tuesday. New Student Week ends.
- 20 Wednesday. Fall quarter begins.
- 25 Monday. Undergraduate English Qualifying Examination, 9:00 A.M.-12:00 M., Furr Auditorium.

OCTOBER

- 7 Saturday. Ph.D. Candidates in Education, 8:30 A.M.-3:00 P.M., Morris Library Auditorium.
- 14 Saturday. Graduate English Objective Examination, 1:00-2:00 P.M., Furr Auditorium.
- 14 Saturday. Graduate Scholastic Aptitude Examination (English Speaking Students), 2:00-4:00 P.M., Furr Auditorium.
- 21 Saturday. Homecoming. Classes which meet only on Saturday morning will meet; other Saturday classes are dismissed.
- 21 Saturday. Medical College Admissions Test, 8:00 A.M.-1:00 P.M., Morris Library Auditorium (Applications due October 7).
- 28 Saturday. Graduate Scholastic Aptitude Examination (Foreign Students), 1:00 P.M.-5:00 P.M., Furr Auditorium.

NOVEMBER

- 4 Saturday. Graduate Foreign Languages Test, Forenoon, Department of Foreign Languages.
- 7 Tuesday. Undergraduate English Qualifying Examination, 9:00 A.M.-12:00 M., Furr Auditorium.

NOVEMBER (Continued)

- 11 Saturday. Graduate English Theme Test, 1:00–3:00 P.M., Furr Auditorium.
- 22 Wednesday. Thanksgiving recess begins, 12:00 M.
- 27 Monday. Thanksgiving recess ends, 8:00 A.M.

DECEMBER

- 11 Monday. Fall quarter final examinations begin.
- 16 Saturday. Fall quarter final examinations end.
- 16 Saturday. Deadline for filing of thesis titles with the Graduate School by candidates for advanced degrees for June 13 Commencement.
- 29 Friday. Freshman Testing, 8:30 A.M.–5:00 P.M., Furr Auditorium.

JANUARY

- 2 Tuesday. Winter quarter begins.
- 27 Saturday. Graduate English Objective Examination, 1:00–2:00 P.M., Furr Auditorium.
- 27 Saturday. Graduate Scholastic Aptitude Examination (English Speaking Students), 2:00–4:00 P.M., Furr Auditorium.

FEBRUARY

- 3 Saturday. Graduate English Theme Test, 1:00–3:00 P.M., Furr Auditorium.
- 10 Saturday. Ph.D. Candidates in Education, 8:30 A.M.–3:00 P.M., Studio Theater.
- 14 Wednesday. Undergraduate English Qualifying Examination, 9:00 A.M.–12:00 M., Furr Auditorium.
- 17 Saturday. Graduate Scholastic Aptitude Examination (Foreign Students), 1:00–5:00 P.M., Furr Auditorium.
- 24 Saturday. Graduate Foreign Languages Test, Forenoon, Department of Foreign Languages.

MARCH

- 12 Monday. Winter quarter final examinations begin.
- 15 Thursday. Due date for applications for financial assistance, graduate assistantships, research assistantships, and fellowships for 1962–63.
- 17 Saturday. Winter quarter final examinations end.
- 17 Saturday. Deadline for filing of thesis titles with the Graduate School by candidates for advanced degrees for August 10 Commencement.

Calendar of Events, 1961-1962, MARCH (Continued)

- 23 Friday. Freshman Testing, 8:30 A.M.-5:00 P.M., Morris Library Auditorium.
- 26 Monday. Spring quarter begins.
- 31 Saturday. Ph.D. Candidates in Education, 8:30 A.M.-3:00 P.M., Morris Library Auditorium.

APRIL

- 2 Monday. Undergraduate English Qualifying Examination, 9:00 A.M.-12:00 M., Furr Auditorium.
- 9 Monday. Graduate English Objective Examination, 1:00-2:00 P.M., Furr Auditorium.
- 9 Monday. Graduate Scholastic Aptitude Examination (English Speaking Students), 2:00-4:00 P.M., Furr Auditorium.
- 14 Saturday. Graduate Scholastic Aptitude Examination (Foreign Students), 1:00-5:00 P.M., Furr Auditorium.
- 21 Saturday. Graduate English Theme Test, 1:00-3:00 P.M., Furr Auditorium.

MAY

- 12 Saturday. Graduate Foreign Languages Test, Forenoon, Department of Foreign Languages.
- 17 Thursday. Scholastic Honors Day. 11:00 o'clock classes dismissed.
- 23 Wednesday. Final date to file application for graduation for June 13 Commencement.
- 23 Wednesday. Final date for filing graduate theses and research papers with the Graduate School by candidates for advance degrees for June 13 Commencement.
- 30 Wednesday. Memorial Day Holiday. Classes dismissed.

JUNE

- 6 Wednesday. Spring quarter final examination begin.
- 12 Tuesday. Spring quarter final examinations begin.
- 13 Wednesday. Commencement.

Registration Calendar

Fall Quarter, 1961

April 10–June 2	Students enrolled in the 1961 spring quarter may be advised and registered.
May 2–3	Advance registration for night and Saturday classes for off-campus students and for vocational rehabilitation students (5:00–7:00 P.M.)
July 5–August 4	Students enrolled in the 1961 summer session may be advised and registered.
July 5–August 4 and August 14–25	New and re-entering students may be advised and may advance register.
August 19	Students will receive fee statements by mail if registered by this date.
August 21–25	Students must pay fees at time of registration if registering between these dates.
September 1	Students will have their advance registrations cancelled if fees are not paid at the Bursar's Office by 4:00 P.M., c.d.t., on this date, unless they have received approval for deferred payment.
September 17–19	New Student Week.
September 20	Fall quarter begins. Last day of regular registration period. Night classes (5:45 P.M. or later) begin. Fall extension classes begin.
September 21	Day classes begin.
October 3	Last registration day without dean's written approval. Last day to withdraw from school to be eligible for a refund of fees.
October 4	Last day for refund applications to be submitted to Registrar's Office for refund of fees.
October 17	Last day to withdraw from a course without receiving a letter grade.
December 2	Last day for making a program change or withdrawing from school except under exceptional conditions.

Registration Calendar

Winter Quarter, 1962

October 4– December 1	Students enrolled in the 1961 fall quarter may be advised and registered. Current students who do not advance register must wait until Thursday, January 4, 1962, and be assessed a \$3.00 late registration fee.
October 24–25	Advance registration for night and Saturday classes for off-campus students and for vocational rehabilitation students (5:00–7:00 P.M.)
November 29	Students will receive fee statements by mail if registered by this date.
November 30– December 1	Students must pay fees at time of registration if registering on either of these dates.
December 15	Students will have their advance registrations cancelled if fees are not paid at the Bursar's Office by 4:00 P.M. on this date, unless they have received approval for deferred payment. Such students must wait until Thursday, January 4, 1962, and be assessed a \$3.00 late registration fee.
January 2	Winter quarter begins. Last day of regular registration period. Night classes (5:45 P.M. or later) begin.
January 3	Day classes begin.
January 15	Last registration day without dean's written approval. Last day to withdraw from school to be eligible for a refund of fees.
January 16	Last day for refund applications to be submitted to Registrar's Office for refund of fees.
January 29	Second semester extension classes begin. Last day to withdraw from a course without receiving a letter grade.
March 3	Last day for making a program change or withdrawing from school except under exceptional conditions.

Registration Calendar

Spring Quarter, 1962

January 15– March 2	Students enrolled in the 1962 winter quarter may be advised and registered. Current students who do not advance register must wait until Wednesday, March 28, and be assessed a \$3.00 late registration fee.
January 30–31	Advance registration for night and Saturday classes for off-campus students, and for vocational rehabilitation students (5:00–7:00 P.M.)
March 2	Students will receive fee statements by mail if registered by this date.
March 16	Students will have their advance registrations cancelled if fees are not paid at the Bursar's Office by 4:00 P.M. on this date, unless they have received approval for deferred payment. Such students must wait until Wednesday, March 28, to re-register and will be assessed a \$3.00 late registration fee.
March 26	Spring quarter begins. Last day of regular registration period. Night classes (5:45 P.M. or later) begin.
March 27	Day classes begin.
April 7	Last registration day without dean's written approval. Last day to withdraw from school to be eligible for a refund of fees.
April 9	Last day for refund applications to be submitted to Registrar's Office for refund of fees.
April 21	Last day to withdraw from a course without receiving a letter grade.
May 30	Last day for making a program change or withdrawing from school except under exceptional conditions.

Map of Carbondale Campus

THIS MAP has been prepared primarily to help students find classrooms, offices, and housing.

LEGEND

Abbreviations for buildings in which classes are held are listed alphabetically on page 11, along with the corresponding names and numbers. The following legend lists buildings alphabetically and numerically.

ALPHABETICAL LIST OF BUILDINGS

Buildings listed below are arranged alphabetically in five categories: (1) classrooms and offices, (2) state building, (3) religious foundations, (4) housing, (5) services.

CLASSROOMS AND OFFICES

T35	Admissions Office (H-6)	T17	Faculty Secretary (F-6)
T15	Administrative Deans (F-7)	T115	Film Development Unit (N-4)
T65	Advisement Center & Sectioning (H-5)	T86	General Publications (D-10)
26	Agriculture Building (I-4)	T105	Geography (Climatology Research) (K-3)
T29	Agriculture Shop (G-4)	T106	Geography (Mississippi Valley Investigations, Cartography) (K-3)
3	Allyn Building (G-6)	T119	Geology (L-3)
2	Altgeld Hall (I-7)	T107	Geology (L-3)
T14	Alumni Office (E-6)	T137	Government and Local Gov't Center (M-8)
18	Animal Building (J-4)	T77	Graduate School (N-8)
5	Anthony Hall (F-7)	19	Greenhouses (J-4)
T97	Anthropology Department (P-5)	T74	Guidance Department (M-4)
57	Applied Science Laboratories (B-5)	7	Gymnasium (E-7)
T46	Area Services (Conference House) (E-6)	T16	Health Education (F-6)
T116	Asian Studies Office (P-5)	T85	Health & Safety Education (E-10)
T94	Botany and Zoology (L-4)	T44	Health Service (B-8)
T32	Business School (G-5)	T98	Health Service (B-9)
T34	Bursar & Auditor (H-6)	42	Home Economics Building (I-8)
T33	Business Manager & Accountant (G-6)	T113	Housing Center (C-10)
T39	Cafeteria (H-6)	T133	Housing Center (C-10)
T66	Central Clinical Services (L-4)	T25	Industrial Education Shops (F-6)
T99	Central Research Shop (N-4)	T26	Industrial Education (Applied Science) (F-4)
T85	Civil Defense (E-10)	T27	Industrial Education (Applied Science) (F-4)
T127	Community Development (L-3)	T87	Industrial Education (Applied Science) (D-10)
T140	Community Development (L-4)	T134	Information Service (M-4)
T20	Computing Center (G-6)	T81	Isotope Research (O-4)
T100	Coordinator of Research (P-4)	T48	Journalism and Egyptian (G-4)
T125	Design Department (L-3)	T124	Labor Institute (O-4)
T126	Design Department (L-3)	T92	Latin American Institute (B-9)
T128	Design Department (L-3)	17	Life Science Building (K-4)
T129	Design Department (L-3)	T138	Management Department (O-4)
T31	Economics Department (H-5)	T109	Marketing Department (M-5)
T40	Education Classes, Offices (J-6)	T110	Mathematics Department (P-6)
T41	Education Classes, Offices (J-6)	T111	Mathematics Department (P-6)
T42	Education Classes, Offices (J-6)	T96	Mentally Retarded Program (O-4)
T108	Education (Secondary & Higher) (L-5)	13	McAndrew Stadium (E-6)
T130	Education College Dean's Office (N-5)	25	Morris Library (J-5)
T136	English Department Offices (L-8)	1	Old Main Building (G-7)
T91	English Department Offices (O-7)	4	Parkinson Building (G-6)
T102	English Department Offices (L-8)	T90	Perception Research (Rehabilitation) (O-4)
T15	Extension Division (F-7)	T13	Personnel Office (E-7)
		T27	Photography and Printing Dept. (F-4)

ALPHABETICAL LIST OF BUILDINGS (CONTINUED)

T132 Photographic Service (C-9)
 T76 Physical Education & Research (N-8)
 T58 Physical Education (F-8)
 T120 Plan "A" House (E-4)
 T34 Placement Service (H-6)
 T36 Playhouse (H-6)
 T18 Post Office (F-6)
 T45 President's Office (I-6)
 T122 Psychology Graduate Lounge (M-4)
 T68 Psychology Offices & Classes (M-4)
 T69 Psychology Offices & Classes (M-4)
 T70 Psychology Offices & Classes (M-4)
 T71 Psychology Offices & Classes (M-4)
 T73 Psychology (Industrial) (N-4)
 T60 Psychology (M-4)
 T95 Psychology & Nursery (L-3)
 T33 Purchasing Office (G-6)
 T37 Radio Studios & Classes (H-6)
 T108 Reading Center (L-5)
 T84 Recreation & Outdoor Education (E-10)
 T35 Registrar's Office (H-6)
 T62 Rehabilitation Institute (M-4)
 T93 Rehabilitation Institute (M-4)
 T103 Rehabilitation Institute (M-4)
 6 Shryock Auditorium (H-6)
 T80 Small Business Institute (P-5)
 T121 Sociology Department (O-7)
 T104 Sociology Department (O-7)
 T79 Sociology Department (O-7)
 T75 Special Education Department (M-4)
 T38 Speech Department (H-6)
 T61 Speech & Hearing Clinic (M-4)
 T35 Statistical Service (H-6)
 T82 Stenographic Service (K-8)
 T19 Student Affairs Offices (F-6)
 T18 Student Union (F-6)
 T15 Student Work Office (E-6)
 T17 Testing Service (F-6)
 T78 Technical & Adult Education Office (N-8)
 45 University Center (under construction) (F-5)
 T117 University Press (I-4) (N-4)
 23 University School (L-7)
 21 University School (Ind. Edu. wing) (L-6)
 T63 University Store (G-8)
 22 University Swimming Pool (M-6)
 83 Vice President's Office, Carbondale Campus (I-8)
 8 Wheeler Hall (H-7)
 T67 Wildlife Research (L-4)

STATE BUILDINGS

S1 Illinois Public Health Laboratory (M-3)

RELIGIOUS FOUNDATIONS

R1 Baptist Foundation (Southern) (J-6)
 R2 Baptist Foundation (Southern) (N-5)
 R5 Episcopal Foundation (O-8)
 R3 Student Christian Foundation (H-9)
 R4 Wesley Foundation (Methodist) (K-9)

HOUSING

H1-H33 Chaulauqua Housing Area (K & L-3)
 H49-H58 Chaulauqua Housing Area (K & L-3)
 H75 Group Housing (C-9)
 T1-T9 Dowdell Halls (Men's Residence) (A-8 & 9)
 113-114 Group Housing Units (L-2)
 117-127 Southern Hills Family Housing (A-7)
 T57 Illinois Avenue Residence Hall (J-9)
 H36 President's Home (J-6)
 27-34 Thompson Point Residence Area (I-3)
 27 Lentz Hall (Student Service Center) (J-3)
 28 Bailey Hall (I-3)
 29 Pierce Hall (I-3)
 31 Bowyer Hall (H-3)
 32 Steagall Hall (I-3)
 33 Brown Hall (I-3)
 34 Felts Hall (I-3)
 205 Trailer Park (A-10)
 24 Woody Hall (Women Students) (J-7)
 H74 University Avenue Residence Hall (L-9)
 H37 University Courts (K-9)

SERVICES

79 Beach House (I-2)
 T135 Faculty Club (E-5)
 14 General Stores,
 56 Laundry (B-5)
 14 Physical Plant (B-5)
 14 Printing Service (B-5)
 15 Physical Plant Garage (C-5)
 12 Power Plant (B-5)
 78 Shelter & Boat Dock (F-3)
 14 University Architect

NUMERICAL LIST OF BUILDINGS

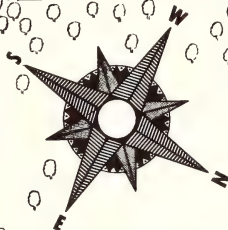
Buildings listed below are arranged numerically in five categories. The letter preceding the number determines the category: (1) no letter, (2) the letter H, (3) the letter R, (4) the letter S, (5) the letter T.

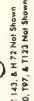
NO LETTER

1. Old Main (G-7)
2. Altgeld Hall (I-7)
3. Allyn Building (G-6)
4. Parkinson Building (G-6)
5. Anthony Hall (F-7)
6. Shryock Auditorium (H-6)
7. Gymnasium (E-7)
8. Wheeler Hall (H-7)
9. Browne Auditorium (G-6)
12. Power Plant (B-5)
13. McAndrew Stadium (E-6)
14. General Stores, Physical Plant, Printing Service, University Architect (B-5)
15. Physical Plant Garage (C-5)
17. Life Science Building (K-4)

18. Animal Building (J-4)
19. Greenhouses (J-4)
21. University School (Industrial Education Wing) (L-6)
22. University Swimming Pool (M-6)
23. University School (L-7)
24. Woody Hall (J-7)
25. Morris Library (J-5)
26. Agriculture Building (I-4)
27. Lentz Hall (Student Service Center) (J-3)
28. Bailey Hall (I-3)
29. Pierce Hall (I-3)
31. Bowyer Hall (H-3)
32. Steagall Hall (I-3)
33. Brown Hall (I-3)
34. Felts Hall (I-3)
42. Home Economics Building (I-8)
45. University Center (F-5)

1 October 1960





NUMERICAL LIST OF BUILDINGS (CONTINUED)

- 56. Laundry (B-5)
- 57. Applied Science Laboratories (B-5)
- 78. Shelter & Boat Dock (F-3)
- 79. Beach House (I-2)
- 83. Vice-President's Office, Carbondale Campus (I-8)
- 101-114. Group Housing (L-2)
- 117-127. Southern Hills Family Housing (A-7)
- 205. Trailer Park (A-10)

- H**
- H1-H13. Chautauqua Housing (K & L-3)
- H36. President's Home (J-6)
- H37. University Courts (K-9)
- H-49-H58. Chautauqua Housing (K & L-3)
- H74. University Avenue Residence Hall (L-9)
- H75. Group Housing (C-9)

- R**
- R1. Baptist Foundation (J-6)
- R2. Baptist Foundation (N-5)
- R3. Student Christian Foundation (H-9)
- R4. Wesley Foundation (K-9)
- R5. Episcopal Foundation (O-8)

- S**
- S1. Illinois Public Health Laboratory (M-3)

- T**
- T1-T9. Dowdell Halls (Men's Residence) (A-8 & 9)
- T13. Personnel Office (E-7)
- T14. Alumni Office (E-6)
- T15. Administrative Deans, Extension Division, Student Work Office (F-7)
- T16. Health Education (F-6)
- T17. Faculty Secretary, Testing Service (F-6)
- T18. Post Office, Student Union (F-6)
- T19. Office of Student Affairs (F-6)
- T20. Computing Center (G-6)
- T25. Industrial Education Shops (F-6)
- T26. Industrial Education (Applied Science) (F-4)
- T27. Industrial Education (Applied Science), Printing & Photography (F-4)
- T29. Agriculture Shop (G-4)
- T31. Economics Department (H-5)
- T32. Business School (G-5)
- T33. Business Manager, Accountant, Purchasing Office (G-6)
- T34. Bursar, Auditor, Placement Service (H-6)
- T35. Admissions Office, Registrar's Office, Statistical Service (H-6)
- T36. Playhouse (H-6)
- T37. Radio Studios & Classes (H-6)
- T38. Speech Department (H-6)
- T39. Cafeteria (H-6)
- T40. Education Classes, Offices (J-6)
- T41. Education Classes, Offices (J-6)
- T42. Education Classes, Offices (J-6)
- T44. Health Service (B-8)
- T45. President's Office (I-6)
- T46. Area Services (Conference House) (E-6)
- T48. Journalism & Egyptian (G-4)
- T57. Illinois Avenue Residence Halls (J-9)
- T58. Physical Education (F-8)
- T60. Psychology Offices (M-4)
- T61. Speech & Hearing Clinic (M-4)
- T62. Rehabilitation Institute (M-4)
- T63. University Store (G-8)
- T65. Advisement Center & Sectioning (H-5)
- T66. Central Clinical Services (L-4)
- T67. Wildlife Research (L-4)
- T68-T71. Psychology Offices & Classes (M-4)
- T73. Psychology (Industrial) (N-4)
- T74. Guidance Department (M-4)
- T75. Special Education Department (M-4)
- T76. Physical Education & Research (N-8)
- T77. Graduate School (N-8)
- T78. Technical & Adult Education Office (N-8)
- T79. Sociology Department (O-7)
- T80. Small Business Institute (P-5)
- T81. Isotope Research (O-4)
- T82. Stenographic Service (K-8)
- T84. Recreation and Outdoor Education (E-10)
- T85. Civil Defense, Health & Safety Education (E-10)
- T86. General Publications (D-10)
- T87. Industrial Education (Applied Science) (D-10)
- T90. Perception Research (Rehabilitation) (O-4)
- T91. English Department Offices (O-7)
- T92. Latin American Institute (B-9)
- T93. Rehabilitation Institute (M-4)
- T94. Botany and Zoology (L-4)
- T95. Psychology & Nursery (L-3)
- T96. Mentally Retarded Program (O-4)
- T97. Anthropology Department (P-5)
- T98. Health Service (B-9)
- T99. Central Research Shop (N-4)
- T100. Co-ordinator of Research (P-4)
- T102. English Offices (L-8)
- T103. Rehabilitation Institute (M-4)
- T104. Sociology Department (O-7)
- T105. Geography (Climatology Research) (K-3)
- T106. Geography (Mississippi Valley Investigations, Cartography) (K-3)
- T107. Geology (L-3)
- T108. Education (Secondary and Higher), Reading Center (L-5)
- T109. Marketing Department (M-5)
- T110. Mathematics Department (P-6)
- T111. Mathematics Department (P-6)
- T113. Housing Center (C-10)
- T115. Film Development Unit (N-4)
- T116. Asian Studies Office (P-5)
- T117. University Press (I-4) (N-4)
- T119. Geology (L-3)
- T120. Plan "A" House (E-4)
- T121. Sociology Department (O-7)
- T122. Psychology Graduate Lounge (M-4)
- T124. Labor Institute (O-4)
- T125. Design Department (L-3)
- T126. Design Department (L-3)
- T127. Community Development (L-3)
- T128. Design Department (L-3)
- T129. Design Department (L-3)
- T130. Education College Dean's Office (N-5)
- T132. Photographic Service (C-9)
- T133. Housing Center (C-10)
- T134. Information Service (M-4)
- T135. Faculty Club (E-5)
- T136. English Department Offices (L-8)
- T137. Government & Local Government Center (M-8)
- T138. Management Department (O-4)
- T140. Community Development (L-4)

General Information

THIS BULLETIN contains the schedule of classes to be offered on the Carbondale and Vocational-Technical Institute campuses for the fall, winter, and spring quarters of the 1961-62 school year. It also provides the student with information relative to advisement and registration, fees, various calendars of events, and allied information.

Classes offered during the summer session for the two campuses will continue to appear in separate summer session bulletins which are usually available during March of each year.

Class schedule information for the University's Southwestern Illinois Campus is to be secured from the Registrar's Office, Southwestern Illinois Campus, Southern Illinois University, Edwardsville, Illinois, or at the Registrar's Office at the Alton or East St. Louis campuses.

Each student should keep his copy of this schedule for the entire school year, because he must use it for each quarter's registration.

ADVISEMENT AND REGISTRATION SYSTEM

The University's Carbondale campus uses a central academic advisement system whereby each undergraduate academic unit has a chief academic adviser and a number of assistant advisers selected from the teaching faculty. After a student has received his Certificate of Admission, his next step is to contact the Academic Advisement Center for an appointment with an academic adviser of the academic unit which he is entering. Graduate students should contact the Graduate School.

After advisement the student may register for classes. The new student should also familiarize himself with the registration system used on the Carbondale campus. For a number of years, an advance registration system has been used through which a student is expected to register for a quarter before the quarter starts. The registration calendars appear on pages XIII to XV.

During the registration process the student goes through the Sectioning Center where the assignment is made to specific sections of the courses the student is to take. For a number of years the Carbondale campus has had to schedule classes at night and on Saturday mornings because of space limitations. A student is to expect assignment to night or Saturday morning classes even though it is recognized that these may be considered undesirable class hours.

ADVISEMENT AND REGISTRATION PROCEDURE

NEW STUDENTS

New undergraduate or graduate students are permitted to advance register for the fall quarter only after admission is approved as evidenced by their receiving the Certificate of Admission from the Admissions Office. New freshmen and transfer students do this by contacting the Academic Advisement Center, 1218 South Thompson Street, and graduate students by contacting the Graduate School, 309 West Mill Street. Specific advisement information including an application blank for testing and an appointment card for academic advisement is sent to each student when he is admitted.

All entering freshmen must take the Guidance Test Battery *prior to* advisement and registration. Illinois residents who ranked in the lowest third of their graduating class must take the test battery before they can be considered for admission. Out-of-state students who rank in the lower one-half of their graduating classes must take the tests prior to admission. High school students are encouraged to take the Guidance Test Battery during the spring of their senior year and thus be ready for academic advisement during the summer. A complete set of dates and test centers is available from the Office of Admissions. Students who are not able to take the tests in the spring may write to the Testing Center and make arrangements to be tested in Carbondale on one of the following dates: June 16, July 17, July 22 (cannot be advised until July 26 or later), July 24, July 31, August 12 (cannot be advised until August 16 or later), August 14,

or August 21. The exact place of testing will be sent with the ticket of admission for the requested test date.

Testing sessions will begin at 8:30 A.M., C.D.T., and will continue until 5:00 P.M. Students taking the test *will not* be advised or registered on the same day. Students who live a considerable distance from Carbondale may desire to stay overnight and be advised and register on the Tuesday after a Monday testing session. Those students who plan to make two trips to the campus rather than remain overnight should plan to be advised on a day other than Tuesday.

If the student cannot take the tests during the spring or summer, he must take them on Friday, September 15, at Shryock Auditorium.

Transfer students are expected to take the tests unless they have their scores forwarded from their former school to the Testing Center. These scores are not normally sent with one's transcript and should be requested from the appropriate office of the former school.

The Academic Advisement Center will be open July 5–August 4 and August 14–25, Monday through Friday, 8:00 to 12:00 and 1:00 to 3:30, C.D.T. The Sectioning Center will be open on the same days, 8:00 to 11:30 and 1:00 to 3:30, C.D.T. These centers will also be open on Saturdays from 8:30 to 11:30 during these periods, but the number of students who can be handled is restricted. Students must write at least ten days in advance for appointments for advisement.

If a new freshman cannot be in Carbondale to be advised on these dates, he will be advised, register, and pay his fees during New Student Week, September 17–19.

All other new students will be advised, register, and pay fees on September 20, if they have not been able to advance register.

New students planning to enter the University at Carbondale during the winter or spring quarter should initiate action by contacting the Admissions Office. Specific advisement and registration information will be furnished as they complete their admission procedure.

RE-ENTERING STUDENTS

Students who have attended the University at some former time but not during the session immediately prior to the time they plan to re-enter should initiate action by contacting the Admissions Office. Specific advisement and registration information will be furnished as they complete their re-entrance procedure with the Admissions Office.

CURRENT STUDENTS

All students currently registered in the University will be continued in

their present curriculum unless a change of college or major is made. A change of college or major is initiated with the student's adviser. Either change should be made at the time of advisement, and the registrar's copy of the change form should accompany the student's registration. Changes of college or major made after a registration has been processed will not be reflected in the student's records until the next registration.

An undergraduate student currently registered in the University will schedule an appointment with his adviser. At the time of advisement he will secure his authorization card and other registration cards. These are to be processed through the Sectioning Center soon as possible after advisement.

A graduate student currently registered in the University will report to the Graduate School, 309 West Mill Street, to initiate the registration process. After the registration forms have been approved by the dean of the Graduate School, they will be brought to the Sectioning Center, 1218 South Thompson Street.

PAYMENT OF FEES

A student who advance registers will receive his fee statement and receipt card by mail, and his fees may be paid either by mail or in person by the deadline date specified in the Registration Calendar. Upon payment of fees, the fee statement and receipt card will be stamped by the bursar and returned to the student as a fee receipt together with the No. 3 program card. These cards should be carried at all times. They serve as official authorization to attend classes as scheduled and must be presented to obtain books and activity cards and to process program changes. If fees are paid in person, these cards will be given to the student at the time of payment. If paid by mail, they may be picked up at any time thereafter at the Bursar's Office.

A student who does not advance register must pay his fees at the time he registers.

FEES FOR A REGULAR QUARTER

Illinois students taking more than 8 hours will pay the following regular fees:

Tuition	\$42.00
Book rental	5.00
Activity fee	9.50
Student union building fund fee	5.00
Total	\$61.50

Illinois students taking eight or fewer hours will pay half tuition and book rental, will have an option of paying the activity fee, and will pay the full student union building fund fee. Once an option has been made by a student at the time of registration as to whether or not to pay the activity fee, such option is irrevocable. A part-time student, then, will pay either \$28.50 or \$38.00.

Out-of-state students will pay an additional tuition of \$50.00 if taking more than eight hours and an additional \$25.00 if taking eight hours or fewer.

In addition to the above, students registering for the first time during the year for AF ROTC will be subject to a \$5.00 equipment deposit.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status.

The University reserves the right to change fees and have the change go into effect whenever the proper authorities so determine.

REGISTERING FOR ONLY NIGHT AND/OR SATURDAY CLASSES

Students registering for only night and/or Saturday classes may advance register, during regular office hours, the same as other students. Registration offices are also open on two nights, between 5 and 7 P.M., during each advance registration period for the convenience of these students. (Refer to Registration Calendar). In addition, registration offices are open on the first night of each quarter from 6 to 8 P.M. and on the first Saturday of each quarter from 8:30 A.M. to 1:00 P.M. for registering these students.

LATE REGISTRATION

The first day of a quarter is considered the last day of the regular registration period. Registrations, including those involving "to be arranged," thereafter are considered late registrations and are assessed the appropriate late registration fee. This is \$2.00 the first day with an additional \$1.00 per day to a maximum of \$5.00. The *only* exception to this late fee rule is for students taking *only* night and/or Saturday classes. These students may register on the first Saturday without a late fee. Thereafter, these students pay a straight \$5.00 late registration fee. Registration is permitted during the first two weeks of a quarter. Registration thereafter will be permitted only with the written approval of the student's academic dean and will apply only to those students who, for valid reasons could not arrive

on campus during the first two weeks. Any student who was on campus during the first two weeks of a quarter and who attempts to complete his registration (clearing his fees at the Bursar's Office) thereafter will not be permitted to do so.

Veterans attending under one of the public laws should note that the Registrar's Office will certify enrollment and attendance to the Veteran's Administration, for subsistence purposes, only as of the date when fees were cleared at the Bursar's Office, should registration take place after the opening date of the quarter.

Students registering *only* for a course(s) whose meeting time is listed as "to be arranged" in the Schedule of Classes must be registered by the first day of a quarter or be assessed late registration fees the same as regular students.

AUDITING OF COURSES

A student may register for courses in an "audit" status. He receives no letter grade and no credit for such courses. An auditor's registration card must be marked accordingly. He pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for credit may not later change to an audit status or vice versa except for fully justified reasons. Such a change will ordinarily require the student's academic dean's approval.

REGISTERING FOR AND WITHDRAWING FROM COURSES

Mere attendance does not constitute registration in a class nor will attendance in a class for which a student is not registered be a basis for asking that a program change be approved permitting registration in that class.

A student is officially registered only for those courses appearing on his registration cards. Any change therefrom can be made only after fees are paid and must be made through an official program change, which includes the following steps:

Step 1. Initiating the change.

A graduate student changing courses initiates the change by pre-

senting his fee receipt and No. 3 program card to his graduate adviser. He then must secure the approval of the Graduate School. *An undergraduate student changing courses* initiates the change by presenting his fee receipt and No. 3 program card to his academic adviser at the Academic Advisement Center.

A student changing sections but not courses initiates the change by taking his fee receipt and No. 3 program card to the Sectioning Center.

Step 2. Sectioning.

The student must take his program change form to the Sectioning Center *within two days* after approval by his adviser.

Step 3. Paying the program change fee.

If a program change fee has been assessed, then the program change form must be presented to the Bursar's Office for payment. (Otherwise, this step is omitted.)

Step 4. Final Processing.

The student completes his program change by presenting it to the Enrollment Center in the Registrar's Office.

Program changes (except for section changes and dropping of courses made after the second week of a quarter will require the approval of the student's academic dean or his designated representative.

A program change must be made in order to drop a course. A student may not drop merely by stopping attendance. The last date for dropping a course without receiving a W-grade is the last day of the fourth week of a quarter.

Program changes will not be accepted at the Sectioning Center on the first day of a quarter.

WITHDRAWAL FROM SCHOOL

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Office of Student Affairs to initiate official withdrawal action. No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is *officially* completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration period. See the Registration Calendars for the specific dates concerning withdrawal and refunding of fees.

A student who advance registers, including paying of fees, and then finds that he cannot attend school must also officially withdraw from

school. He may do this by writing the Office of Student Affairs and asking them to initiate official withdrawal action for him. This must be done by the end of the first two weeks if the student expects to get a refund.

CANCELLATION OF REGISTRATION

An advance registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the Director of the Office of Student Affairs.

PERSONAL DATA CHANGES

1. A CHANGE IN ADDRESS, whether local, home, or parents', is to be reported by the student to the reception desk in the Registrar's Office as soon as possible after the change occurs. The above addresses for a student are obtained from his Number 4 registration card when he first registers for a quarter during the year. Address changes are not made thereafter during the year unless they are reported as above by the student.
2. A CHANGE IN NAME is to be reported to the Enrollment Center in the Registrar's Office. A change for marital reasons will be done on the basis of a signed statement. Other changes may require the presenting of legal evidence.
3. A CHANGE IN MARITAL STATUS is to be reported to the Enrollment Center. A change will be made if it is based upon incorrect coding or punching. Any other change must be accompanied by a signed statement.
4. A CHANGE IN LEGAL RESIDENCE (whether an Illinois or out-of-state resident) is to be requested on the Application to be Declared an Illinois Resident form in the Registrar's Office. Before the request is honored, the Registrar must be satisfied that the student has met the regulations governing residency status as established by the Board of Trustees.

Class Schedule Information

THE FOLLOWING material may be of value in interpreting the information appearing in the class schedule.

LISTING OF COURSES

In the Schedule of Classes, departments in which courses are being offered are listed in alphabetical order. Courses within each department are listed in order by course and section number. For a list of academic units and the departments within each of them, see page 12.

INTERDEPARTMENTAL COURSES

Courses of an interdepartmental nature are offered in the humanities, science, and social studies areas. These courses are for upperclass students, and their purpose is to provide the student with an overview of the broad field after he has taken a number of courses within the more specialized area of his major. While not compulsory, it is believed that the benefits of these courses will be self-evident to the student who is interested in securing a proper perspective of his specialty as it relates to other human activities. They are to meet at the same time as the freshman convocations which usually are held at 10:00 A.M. on Thursday. These courses carry one hour of credit.

The interdepartmental courses to be offered during the 1961-62 academic year are as follows:

Humanities 301-1	Man's Cultural Background
Science 301-1	Man's Physical Environment
Social Studies 301-1	Man in Society

COURSE NUMBERS AND HOURS

The column containing this information shows the number of the course first, followed by the number of hours of credit. Course numbers are three digit numbers. In some cases the three digits may be followed by a letter which is also part of the course number. The number appearing after the hyphen denotes the hours of credit for the course. In some cases there may be more than one number following the course number such as 599-2 to 5. This represents a variable-hour course in which the student decides the number of hours for which he is going to register in consultation with his adviser.

The course numbering system is as follows:

- 000-099 Course not properly falling in freshman, sophomore, etc. sequence
- 100-199 For freshmen
- 200-299 For sophomores
- 300-399 For juniors and seniors
- 400-499 For seniors and graduate students
- 500-600 For graduate students only

PREREQUISITES

For the guidance of students many courses list the courses which need to have been taken before the one under question can be taken. These prerequisites may be listed in a number of different ways. If only a number appears in the column, this refers to the department's own course. If the course is another department's course, the department will be listed prior to the number. On advanced course levels registration in a course may require the consent of the instructor or of the department.

The listing of prerequisites provides ready information for students. An effort has been made to have the listing be as complete as possible but this is not guaranteed. For the official listing of course descriptions and prerequisites, a student needs to consult the bulletin of the academic unit within which the department is located.

TENTATIVE COURSES

Courses which have a "T" appearing before the section numbers have been tentatively scheduled. The sections will be opened for registration only if staff is available.

COURSES "BY APPOINTMENT" OR "TO BE ARRANGED"

Students registering for courses listed as "by appointment" or "to be arranged" should consult with the instructor indicated, or with the department chairman if no instructor is listed, to determine time and place of meeting.

BUILDING NUMBER AND ROOM NUMBER

The following list of building abbreviations will help in the location of classrooms. Buildings are listed alphabetically according to the code used in the class schedule. The numbers refer to the map on page xvi. Temporary buildings which are indicated in the schedule by the letter T followed by a number do not appear in this list.

CODE: BUILDING NAME—NUMBER	MAP KEY	CODE: BUILDING NAME—NUMBER	MAP KEY
A: Allyn Building—3	G-6	Pool: University Swimming Pool—22	M-6
Ag: Agriculture Building—26	I-4	Quon: Quonset Hut—T 58	F-8
Ag Quon: Agriculture Quonset—T 29	G-4	RadS: Radio Studios—T 37	H-6
Alg: Altgeld Hall—2	I-7	SCF: Student Christian	
ApS: Applied Science—57	B-5	Foundation—R3	H-9
Aud: Shryock Auditorium—6	H-6	Stables: Stables at Little Grassy Lake	--
Bailey: Bailey Hall—28	I-3	Stadium: McAndrew Stadium—13	E-6
BF: Baptist Foundation—R1	J-6	Tennis: Tennis Courts	--
Bowling A: Bowling Alley	--	USch: University School—23	M-7
Browne: Browne Auditorium—9	H-6	USch I: Industrial Education—21	L-6
BrownH: Brown Hall—33	I-3	VTI: Vocational-Technical Institute	
EF: Episcopal Foundation—R5	O-8	(Southern Acres)	--
Felts: Felts Hall—34	I-3	WF: Wesley Foundation—R4	K-9
Gym: Gymnasium—7	F-7	Wh: Wheeler Hall—8	H-7
HEc: Home Economics Building—42	I-8	Woody: Woody Hall—24	J-7
HMgt: Home Management House		903 S Forest: Co-ordinator of	
in HEc—42	I-8	Research—T 100	P-4
Lake: Lake on the Campus	2, 3	911 S Forest: Labor Institute—T 124	O-4
Lib: Morris Library—25	J-5	1015 S Forest: Psychology Annex	
LG: Little Grassy Lake	--	3—T 71	M-4
LS: Life Science Building—17	K-4	1004 S Lake: Speech & Hearing	
M: Old Main—1	G-7	Research Laboratory—T 103	M-4
N Cts: North Tennis Courts	--	907 S Lewis: Latin American	
Office: Office of the department	--	Institute—T 92	B-9
P: Parkinson Building—4	G-6	703 W Mill: Anthropology	
Pierce: Pierce Hall—29	I-3	Department—T 97	P-5
Play: Playhouse—T 36	H-6		

If a building contains more than one classroom, then the number of the room follows the building's code name. A building code which contains a number is separated from the room number by the letter R.

DEPARTMENTAL LISTING BY ACADEMIC UNIT

ACADEMIC UNIT	DEPARTMENT	ACADEMIC UNIT	DEPARTMENT
Agriculture	Agricultural Industries	Fine Arts	Art
	Animal Industries		Design
	Forestry		Music
	Plant Industries		
Air Science	Air Science	Home Economics	Clothing & Textiles
			Food & Nutrition
Applied Science	Applied Science Industrial Education		Home & Family
			Home Economics Education
Business	Accounting	Liberal Arts & Sciences	Anthropology
	Economics		Botany
	Management		Chemistry
	Marketing		English
	Secretarial & Business Education		Foreign Languages
Communications	Journalism		Geography
	Printing & Photography		Geology
	Radio-Television		Government
	Speech		History
	Speech Correction		Mathematics
	Theater		Microbiology
			Philosophy
Education	Educational Administra- tion & Supervision Elementary Education Guidance Health Education Higher Education Instructional Materials Physical Education for Men Physical Education for Women Recreation & Outdoor Education Secondary Education Special Education		Physics
			Physiology
			Psychology
			Religious Education
			Sociology
			Zoology
		Nursing	Nursing
		Vocational- Technical Institute	Vocational- Technical Institute

Schedule of Classes

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
ACCOUNTING (ACCT)								
Accounting Fundamentals	250-4		1	1	9:00-9:50 5:45-7:25 p.m.	TuW FS M W	T 32 R 110 T 32 R 110	Mr. Rooke Mr. Rooke
Elementary Accounting I	251-4		1		8:00-8:50	TuWThF	T 32 R 110	Miss Barron
		T2		9:00-9:50	M Th	T 32 R 111	Staff	
				9:00-9:50	W F	T 32 R 110	Staff	
		T3		11:00-11:50	M F	T 32 R 110	Staff	
				11:00-11:50	Tu Th	T 32 R 111	Staff	
		4		11:00-11:50	TuWTh S	T 32 R 110	Mr. Richards	
		5		12:00-12:50	MTu ThF	T 32 R 110	Staff	
		6		1:00-1:50	MTu ThF	T 32 R 110	Staff	
		7		2:00-2:50	MTu ThF	T 32 R 110	Mr. Burger	
		8		3:00-3:50	MTu ThF	T 32 R 110	Staff	
		9		4:00-4:50	MTuWTh	T 32 R 110	Mr. Swick	
Elementary Accounting II	252-4			5:45-7:25 p.m.	Tu Th	T 32 R 110	Mr. Schmidlein	
				5:45-7:25 p.m.	M W	T 32 R 110	Mr. Rooke	
		1		8:00-8:50	TuW FS	T 32 R 110	Mr. Rooke	
		2		4:00-4:50	MTuWTh	T 32 R 110	Staff	
		T3		5:45-7:25 p.m.	Tu Th	T 32 R 111	Staff	
				2:00-2:50	MTu ThF	T 32 R 110	Staff	
		1		8:00-8:50	MTu Th S	T 32 R 111	Mr. Favrot	
		2		8:00-8:50	MTu ThF	T 32 R 111	Mr. Favrot	
		3		9:00-9:50	M WTh S	T 32 R 111	Staff	
		T4		11:00-11:50	M W FS	T 32 R 111	Mr. Swick	
		T5		12:00-12:50	M WThF	T 32 R 110	Staff	
Elementary Accounting III	253-4			11:00-11:50	Tu Th	T 32 R 111	Staff	
				11:00-11:50	W F	T 32 R 110	Staff	
		6		1:00-1:50	MTu ThF	T 32 R 110	Mr. Richards	
		7		3:00-3:50	MTu ThF	T 32 R 110	Staff	
		8		4:00-4:50	MTuW F	T 32 R 111	Mr. Burger	
		9		5:45-7:25 p.m.	M W	T 32 R 111	Mr. Schmidlein	
		1		8:00-8:50	TuWThF	T 32 R 111	Miss Barron	
		2		4:00-4:50	MTuWTh	T 32 R 110	Staff	
		T3		5:45-7:25 p.m.	M W	T 32 R 111	Staff	
		1		9:00-9:50	MTu Th S	T 32 R 110	Mr. Favrot	
		T2		4:00-4:50	MTuWTh	T 32 R 111	Staff	
		11:00-11:50	MTu Th S	T 32 R 110	Mr. Favrot			
		8:00-8:50	M W FS	T 32 R 110	Mr. Favrot			

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
AGRICULTURAL INDUSTRIES (AG I)									
Introduction to Agricultural Economics	114-4		F	W	S				
			1			3:00-3:50	MTuW	Ag 214	Mr. Benton
						8:00-9:50		Ag 225	Mr. Benton
			2	1		3:00-3:50	MTuW	Ag 214	Mr. Benton
						3:00-4:50		Ag 225	Mr. Benton
			3	2		3:00-3:50	MTuW	Ag 214	Mr. Benton
Basic Electricity ¹	145-4					3:00-4:50	F	Ag 225	Mr. Benton
						3:00-3:50	MTuW	Ag 214	Mr. Benton
						10:00-11:50		Ag 225	Mr. Benton
			1	1		1:00-2:50	MTu	T 25 R 106	Staff
						8:00-9:50	MTu	T 25 R 106	Staff
				2		8:00-11:50	W	T 25 R 106	Staff
Introduction to Agricultural Education Agricultural Drawing	210-2 214-2					1:00-1:50	M	Ag 225	Mr. Benton
			1			1:00-2:50	W	Ag 195	Mr. Shute
						10:00-11:50	W	Ag 195	Mr. Shute
			2			8:00-9:50	Th	Ag 195	Mr. Shute
Introduction to Farm Structures and Electrification	215-4					12:00-1:50	Tu	Ag 195	Mr. Shute
						4:00-4:50	W	Ag 155	Mr. Shute
			1			3:00-4:50	Th	Ag 155	Mr. Shute
						4:00-4:50	W	Ag 155	Mr. Shute
Surveying	303-4	Math. 106				8:00-9:50	Tu	Ag 155	Mr. Shute
			1			12:00-12:50	W	Ag 155	Mr. Shute
						12:00-2:50	Th	Ag 195	Mr. Shute
			2			12:00-12:50	W	Ag 155	Mr. Shute
Soil and Water Conservation ⁵	306-2 to 5 ³	Pl. I. 301				1:00-3:50	W	Ag 195	Mr. Shute
						12:00-12:50	F	Ag 155	Mr. Shute
			1			8:00-8:50	W	Ag 195	Mr. Shute
						8:00-8:50	Th	Ag 172	Mr. Caster
Summer Practice in Vocational Agricultural Education	307-2	48 hrs. of Ag. and Ed. Ad. 331.				8:00-9:50	Tu	Ag 195	Mr. Shute
			1			To be arranged		Ag 195	Mr. Wood

Agricultural Education	309-5	48 hrs. of Ag. and Ed. Ad. 331	1	8:00-9:50	MTuWThF	Ag 155	Mr. Wood
		48 hrs. of Ag. and Ed. Ad. 331	1	8:00-9:50	MTuWThF	Ag 155	Mr. Wood
General Agriculture	310-4		1	3:00-3:50	MTu F	Ag 225	Mr. Benton
Adult Education in Agriculture	311-3	Consent of Dept.	1	3:00-4:50	Th	Ag 225	Mr. Benton
Student Teaching in Vocational Agriculture	312-8	Taken with 309	1	10:00-11:50	W FS	Ag 155	Mr. Benton
Agricultural Education Practices Farm Management	313-3 350-5		1	10:00-11:50	WTh S	Ag 155	Mr. Benton
			1	To be arranged			Mr. Wood
Farm Financial Management	351-4	350	1	11:00-11:50	MTu Th	Ag 155	Mr. Wood
Agricultural Marketing	354-4	Econ. 205	1	1:00-1:50	M WThF	Ag 225	Mr. Aune
Farm Power and Machinery	373-5	Math. 106	1	12:00-1:50	Tu	Ag 225	Mr. Aune
			1	11:00-11:50	MTuWTh	Ag 225	Mr. Aune
			1	10:00-11:50	S	Ag 225	Mr. Aune
			1	2:00-2:50	M ThF	Ag 225	Mr. Herr
			1	2:00-3:50	Tu	Ag 225	Mr. Herr
			1	2:00-2:50	MTu ThF	Ag 225	Mr. Benton
			1	1:00-1:50	MTu Th	Ag 155	Mr. Paterson
			2	1:00-2:50	W F	Ag Quon	Mr. Paterson
			2	1:00-1:50	MTu Th	Ag 155	Mr. Paterson
			1	10:00-11:50	W F	Ag Quon	Mr. Paterson
Farm Shop	375-3	Math. 106	1	3:00-4:50	MTu F	Ag Quon	Mr. Paterson
		Math. 106	2	8:00-9:50	MTu F	Ag Quon	Mr. Paterson
		Math. 106	1	3:00-4:50	M W F	Ag Quon	Mr. Paterson
		Math. 106	2	8:00-9:50	M W S	Ag Quon	Mr. Paterson
Tractor Maintenance	376-4	373	1	8:00-8:50	M F	Ag 218	Mr. Paterson
Farm Structures	377-4	215	1	8:00-9:50	Tu Th	Ag Quon	Mr. Paterson
			1	3:00-3:50	M W	Ag 155	Mr. Shute
			1	3:00-4:50	Tu Th	Ag 155	Mr. Shute
Agricultural Seminar ^a	381-1	Senior standing	1	4:00-5:15	Tu	Ag 116	Mr. Caster
		Senior standing	1	4:00-5:15	Tu	Ag 225	Mr. Willis
Special Studies in Agricultural Industries	390-1 to 3	Consent of Dept.	1	4:00-5:15	Tu	Ag 116	Mr. Burnside
			1	To be arranged			Staff
Problems in Agricultural Services	410-2 to 4	Consent of Dept.	T1	6:00-9:00 P.M.	M	Ag 225	Mr. Benton
Agricultural Extension	411-3	Consent of Dept.	1	6:30-9:00 P.M.	M	Ag 225	Mr. Benton
Agricultural Problems and Policies	414-4	Econ. 205	1	9:00-9:50	M WThF	Ag 225	Mr. Haag
Advanced Farm Management	450-4	350	1	2:00-2:50	M W F	Ag 225	Mr. Herr
			1	2:00-3:50	Tu	Ag 225	Mr. Herr

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
AGRICULTURAL INDUSTRIES (AG-I) (Continued)								
Agricultural Prices	452-4	Econ. 205		1	9:00-9:50	MTu Th	Ag 225	Mr. Herr
Agricultural Co-operatives	456-3	Econ. 205		1	9:00-10:50	F	Ag 225	Mr. Herr
Livestock Marketing ⁴	457-4	Econ. 205		1	12:00-12:50	MTu Th	Ag 225	Mr. Wills
Grading and Marketing of Field	458-4	Econ. 205,	1		12:00-12:50	M WThF	Ag 225	Mr. Wills
Crops ⁵		Pl. I. 209		1	11:00-11:50	MTu Th	Ag 218	Mr. Sherwood &
Land Resource Economics ⁶	471-4	350 and Econ. 206 or		1	10:00-11:50	W	Ag 171	Mr. Wills
		For. 370, or Econ. 440			3:00-3:50	M W	Ag 168	Mr. Beazley
Agricultural Materials Handling	473-4	350, 373	1		3:00-4:50	Th	Ag 168	Mr. Beazley
					8:00-12:00	S	Ag 218	Mr. Paterson and Mr. Herr
Readings								
Readings in Resource Economics ⁶	520-1 to 6	Consent of Dept.	1	1	To be arranged			Staff
Production Management	520B-1 to 6	12 hrs. Econ.	1	1	To be arranged			Mr. Beazley
Advanced Agricultural Marketing	550-4	Ag. Ec.		1	1:00-1:50	TuWThF	Ag 225	Mr. Herr
Research	554-4	Ag. Ec.		1	9:00-9:50	MTuWTh	Ag 218	Mr. Wills
Seminar	575-1 to 6	Consent of Dept.	1	1	To be arranged			Staff
Thesis	581-1	Consent of Dept.	1	1	To be arranged			Mr. Herr
	599-2 to 9	Consent of Dept.	1	1	To be arranged			Staff
¹ Cross-listed with Industrial Education.								
² Students may register for 2, 3, or 5 hours. If for 2 hours, will meet 8:00-8:50 on Tuesday and 8:00-9:50 on Thursday. If for 3 hours, will meet 8:00-8:50 Monday, Wednesday, and Friday. If for 5 hours, will meet for total time scheduled, preferable to take all five hours.								
³ Cross-listed with Animal Industries and Plant Industries.								
⁴ Cross-listed with Animal Industries.								
⁵ Cross-listed with Plant Industries.								
⁶ Cross-listed with Forestry and Economics.								
AIR SCIENCE (USAF)								
Air Science Leadership Laboratory	100A-0		1	1	10:00-10:50	Tu	Field	Mr. Rankin
Air Science I	110-1			1	8:00-8:50	M Th	Wh 113	Staff
				2	8:00-8:50	M W	M 213	Staff
				3	8:00-8:50	Tu F	Wh 113	Staff

4	8:00-8:50	Tu	F	M 213	Staff
5	9:00-9:50	M	Th	Wh 113	Staff
6	9:00-9:50	M	Th	M 213	Staff
7	9:00-9:50	Tu	F	Wh 113	Staff
8	9:00-9:50	Tu	F	M 213	Staff
9	9:00-9:50	W	S	Wh 113	Staff
10	9:00-9:50	W	S	M 213	Staff
11	10:00-10:50	W	F	Wh 113	Staff
12	10:00-10:50	W	F	M 213	Staff
13	11:00-11:50	M	Th	Wh 113	Staff
14	11:00-11:50	M	Th	M 213	Staff
15	11:00-11:50	Tu	F	Wh 113	Staff
16	11:00-11:50	Tu	F	M 213	Staff
17	11:00-11:50	W	S	Wh 113	Staff
18	12:00-12:50	M	Th	M 213	Staff
19	12:00-12:50	M	Th	Wh 113	Staff
20	12:00-12:50	Tu	F	Wh 113	Staff
21	12:00-12:50	W	F	M 213	Staff
22	1:00-1:50	M	W	Wh 113	Staff
23	1:00-1:50	M	W	M 213	Staff
24	1:00-1:50	Tu	Th	Wh 113	Staff
25	1:00-1:50	Tu	F	M 213	Staff
26	2:00-2:50	M	W	Wh 113	Staff
27	2:00-2:50	Tu	Th	Wh 113	Staff
28	2:00-2:50	Tu	Th	M 213	Staff
29	2:00-2:50	W	F	M 213	Staff
30	3:00-3:50	M	W	Wh 113	Staff
31	3:00-3:50	M	Th	M 213	Staff
32	3:00-3:50	Tu	F	Wh 113	Staff
33	3:00-3:50	Tu	F	M 213	Staff
34	4:00-4:50	M	Th	Wh 113	Staff
35	4:00-4:50	M	Th	M 213	Staff
36	4:00-4:50	Tu	F	Wh 113	Staff
37	4:00-4:50	W	F	M 213	Staff
38	6:00-7:25 P.M.	M		Wh 113	Staff
39	6:00-7:25 P.M.	Tu		Wh 113	Staff
40	6:00-7:25 P.M.	W		Wh 113	Staff
41	6:00-7:25 P.M.	Th		Wh 113	Staff
42	4:00-5:30	M		Aud 110	Staff
43	1:00-1:50	M	W	F	Staff

Air Science I (Cadet Band)

110-1^{1, 2}

Air Science I (Singing Squadron)

110-1^{1, 2}

(Students registering for 110 must also register for 100A.)

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
			F	W	S				
AIR SCIENCE (USAF) (Continued)									
Air Science II Leadership Laboratory	200A-0		1	1	1	10:00-10:50	Tu	Field	Staff
Air Science II	210-1, 220-1		1	1		8:00-8:50	M	Th	Staff
(210—Fall Quarter)			2	2		8:00-8:50	Tu	F	Staff
(220—Winter Quarter)			3	3		9:00-9:50	M	Th	Staff
			4	4		9:00-9:50	M	Th	Staff
			5	5		9:00-9:50	Tu	F	Staff
			6	6		9:00-9:50	W	S	Staff
			7	7		10:00-10:50	W	F	Staff
			8	8		10:00-10:50	W	S	Staff
			9	9		11:00-11:50	M	W	Staff
			10	10		11:00-11:50	Tu	Th	Staff
			11	11		11:00-11:50	Tu	Th	Staff
			12	12		11:00-11:50	W	F	Staff
			13	13		12:00-12:50	M	Th	Staff
			14	14		12:00-12:50	Tu	Th	Staff
			15	15		12:00-12:50	W	F	Staff
			16	16		12:00-12:50	W	F	Staff
			17	17		1:00-1:50	M	W	Staff
			18	18		1:00-1:50	M	W	Staff
			19	19		1:00-1:50	Tu	Th	Staff
			20	20		1:00-1:50	Tu	F	Staff
			21	21		2:00-2:50	M	W	Staff
			22	22		2:00-2:50	M	Th	Staff
			23	23		2:00-2:50	Tu	F	Staff
			24	24		2:00-2:50	Tu	F	Staff
			25	25		3:00-3:50	M	W	Staff
			26	26		3:00-3:50	Tu	Th	Staff
			27	27		3:00-3:50	Tu	F	Staff
			28	28		4:00-4:50	M	Th	Staff
			29	29		4:00-4:50	W	F	Staff
			30	30		6:00-7:25 P.M.	M	Wh 113	Staff
			31	31		6:00-7:25 P.M.	Tu	Wh 113	Staff
			32	32		6:00-7:25 P.M.	W	Wh 113	Staff
			33	33		6:00-7:25 P.M.	Th	Wh 113	Staff
			34	34		4:00-5:30	M	Aud 110	Staff
			35	35		1:00-1:50	M	W	Staff
Air Science II (Cadet Band)	210, 220-1 ^{1,2}						F		Staff
Air Science II (Singing Squadron)	210-1, 220-1 ^{1,2}								Staff

1 Air Science 110, Section 42, and 210, 220, Section 34, make up the Cadet Band Air Science 110, Section 43, and 210, 220, Section 35 make up the Singing Squadron. While these sections are under the direction of Department of Music personnel for musical practice and proficiency, regular AF ROTC credit is given. Cadets enrolling for the above functions will be auditioned and final selection will be based on musical merit. Total enrollment in band after audition will be 48, Singing Squadron 60. Cadets not chosen for retention will be assigned to regular sections.

² Air Science 110, sections 42 and 43 require certain music courses in fall and winter quarters as prerequisites. Students concerned should consult advisers.

[illegible]

(Students registering for 210 or 220 must register for 200 A.)

³ Cross-listed with Government.

ANIMAL INDUSTRIES (AN I)

Animal Husbandry	105-4	1	1:00-1:50 12:00-1:50	M W F Th	Ag 214 Ag 120	Mr. Kamlade & Mr. Burnside
		2	1:00-1:50 2:00-3:50	M W F Th	Ag 214 Ag 120	Mr. Kamlade & Mr. Burnside
		1	3:00-3:50	TuW F	Ag 214	Mr. Kamlade & Mr. Burnside
		2	1:00-2:50 3:00-3:50	Th TuW F	Ag 120 Ag 214	Mr. Burnside Mr. Kamlade &
		1	3:00-4:50	Th	Ag 120	Mr. Burnside
		2	11:00-11:50 10:00-11:50	MTu Th W	Ag 168 Ag 132	Mr. Goodman Mr. Goodman
		2	11:00-11:50	MTu Th	Ag 168	Mr. Goodman
		1	1:00-2:50	W	Ag 132	Mr. Goodman
		1	9:00-9:50 9:00-10:50	MTu S W	Ag 132 Ag 132	Mr. Goodman Mr. Goodman

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
ANIMAL INDUSTRIES (AN I) (Continued)									
Dairy Husbandry	231-4		1			11:00-11:50 11:00-12:50 11:00-11:50 1:00-2:50 2:00-2:50 2:00-3:50	MTu F W MTu F W MTu Th F	Ag 214 Ag 120 Ag 214 Ag 120 Ag 116 Ag 120	Mr. Olson Mr. Olson Mr. Olson Mr. Olson Mr. Olson Mr. Olson
Livestock Judging	311-3	105	1			4:00-4:50 2:00-4:50	M W	Ag 116 Ag 114	Mr. Chappell Mr. Chappell
Dairy Cattle Judging	312-2	231			1	9:00-11:50	F	Ag 114	Mr. Olson
Poultry Judging	313-2	125	1			9:00-11:50	F	Ag Arena	Mr. Hinners
Feeds and Feeding	315-4	105 or 231	1			9:00-9:50 9:00-10:50	M WTh S	Ag 116 Ag 120	Mr. Reed Mr. Reed
				1		9:00-9:50	MTu Th	Ag 214	Mr. Reed
				2		9:00-9:50 9:00-10:50	W MTu Th	Ag 120 Ag 214	Mr. Reed Mr. Reed
						9:00-10:50	S	Ag 120	Mr. Reed
Processing and Grading Poultry Products	321-4	125	1			4:00-4:50 3:00-4:50	M ThF W	Ag 132 Ag 132	Mr. Hinners Mr. Hinners
Hatchery and Breeding Farm Management	327-4	125			1	1:00-1:50 1:00-2:50	MTu F	Ag 132	Mr. Goodman
Animal Breeding and Genetics	332-3	105 or 231, Zool. 100	1			1:00-1:50	MTu Th	Ag 116	Mr. Goodman
Animal Hygiene	337-4	105			1	8:00-8:50	TuWThF	Ag 116	Mr. Burnside
Agricultural Seminar	381-1 ¹		1			4:00-5:15 4:00-5:15	Tu Tu	Ag 116 Ag 225	Mr. Caster Mr. Willis
				1		4:00-5:15	Tu	Ag 116	Mr. Burnside
Special Studies in Animal Industries	390-2 to 3		1	1	1	To be arranged			Staff
Commercial Poultry Production	420-4	125			1	3:00-3:50 3:00-4:50	MTu Th W	Ag 132 Ag 132	Mr. Hinners Mr. Hinners
Poultry Nutrition	423-3	125, 315		1		3:00-3:50	MTu	Ag 132	Mr. Hinners
						3:00-4:50	Th	Ag 132	Mr. Hinners
Dairy Production	430-4	231, 315			1	2:00-2:50 1:00-2:50	MTu F W	Ag 116 Ag 120	Mr. Olson Mr. Olson
Reproduction and Artificial Insemination	431-4	105, 231 or Zool. 100		1		11:00-11:50 10:00-11:50	MTuW F	Ag 144 Ag 120	Mr. Olson Mr. Olson

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
ANTHROPOLOGY (ANTH) (Continued)									
Man and Culture	400-4		1			10:00-11:50	W F	M 112	Mr. Taylor
Language in Culture	401-4		1			8:00-9:50	Tu Th	Ag 180	Mr. Grace
Primitive Art and Technology	404-4			1		10:00-11:50	W F	A 172	Mr. Dark
Social Anthropology	405-4			1		8:00-9:50	Tu Th	T 42 R 118	Mr. Kaut
History of Anthropological Thought	408-4				1	10:00-11:50	W F	M 102a	Mr. Kaut
Anthropology and Modern life	409-4				1	8:00-9:50	Tu Th	T 41 R 104	Mr. Lange
Introduction to General Linguistics	413-3		1			1:00-3:30	F	703 W Mill	Mr. Grace
Phonetics and Phonemics	414-3	413		1		1:00-3:30	F	703 W Mill	Mr. Grace
Grammatical Analysis	415-3	414			1	1:00-3:30	F	703 W Mill	Mr. Grace
Archaeology of North America	430-3		1			2:00-4:30	Tu	703 W Mill	Mr. Fowler
Archaeology of Meso-America	431-3			1		2:00-4:30	Tu	703 W Mill	Mr. Kelley
Archaeology of South American	432-3				1	2:00-4:30	Tu	703 W Mill	Mr. Armillas
Social Organization	462-3				1	2:00-4:30	W	703 W Mill	Mr. Kaut
Religions of the World	465-3			1		7:30-10:00 P.M.	Tu	703 W Mill	Mr. Riley
Cultural Background of Education	475-3		1			2:00-4:30	W	703 W Mill	Mr. Lange
Seminar in Anthropology	481-3		1	1	1	8:00-10:30	S	703 W Mill	Staff
Research in Anthropology	483-3 to 6		1	1	1	To be arranged		703 W Mill	Staff
Reading in Anthropology	485-3 to 6		1	1	1	To be arranged		703 W Mill	Staff
Theory and Method in Archaeology	490-3				1	2:00-4:30	Th	703 W Mill	Mr. Taylor
Field and Research Methods in Ethnology	495-3		1	1		7:30-10:00 P.M.	Tu	703 W Mill	Mr. Riley
Fieldwork in Anthropology	497-3 to 9		1	1	1	To be arranged			Staff
Pro-seminar	500-3		1			7:30-10:00 P.M.	W	703 W Mill	Staff
Colonialism and Native Cultures	526-3				T1	7:30-10:00 P.M.	M	703 W Mill	Mr. Armillas
in Latin America									
Negro Cultures of the Caribbean	527-3				T1	7:30-10:00	Th	703 W Mill	Mr. Dark
Ethnological Cultures of the New World	529-3		1			12:00-12:50	W F	703 W Mill	Mr. Staff
Archaeology of the Greater Southwest	531-3		1			2:00-4:30	Th	703 W Mill	Mr. Taylor
Ethnology of Europe	540-3		1			7:30-10:00	M	703 W Mill	Mr. Lange
Ethnology of Russian Asia	541-3			1		7:30-10:00	M	703 W Mill	Mr. Lange
Ethnology of Africa	543-3		1			7:30-10:00	Th	703 W Mill	Mr. Dark
Ethnological Cultures of the Old World	549-3			1		12:00-12:50	W F	703 W Mill	Staff
Archaeological Cultures of the Old World	559-3				1	12:00-12:50	W F	703 W Mill	Staff
Technology in Culture	570-3				1	7:30-10:00 P.M.	Th	703 W Mill	Mr. Dark
Culture-History and Culture Ecology of Northern Mexico	580-3			1		7:30-10:00 P.M.	W	703 W Mill	Staff
Graduate Seminar in Anthropology	581-3		1	1	1	8:00-10:30	M	703 W Mill	Staff

Advanced Problems in Archaeology	582-3 to 9	1	1	1	To be arranged	Staff
Advanced Problems in Cultural Anthropology	584-3 to 9	1	1	1	To be arranged	Staff
Advanced Reading in Anthropology	585-3 to 9	1	1	1	To be arranged	Staff
Graduate Fieldwork in Anthropology	597-3 to 9	1	1	1	To be arranged	Staff
Thesis	599-3 to 9	1	1	1	To be arranged	Staff
Dissertation	600-3 to 9	1	1	1	To be arranged	Staff

APPLIED SCIENCE (AP S)

Engineering Orientation	000-0	1	1	1	11:00-12:50	Tu	ApS Lab 120	Staff
		2	2	2	11:00-12:50	Tu	ApS Lab 120	Staff
		3	3	3	1:00-2:50	Th	ApS Lab 130	Staff
		4	4	4	1:00-2:50	Th	ApS Lab 130	Staff
Engineering Drawing I	101-3	1	1	1	8:00-9:50	M	T 26 R 114	Staff
		2	2	2	11:00-12:50	W	T 26 R 114	Staff
		3	3	3	3:00-4:50	W	T 26 R 114	Staff
		4	4	4	1:00-2:50	M	T 27 R 114	Staff
		5	5	1	3:00-4:50	W	T 27 R 114	Staff
		6	6		1:00-3:50	Tu	T 27 R 114	Staff
		7	7		6:00-9:00 P.M.	Tu	T 26 R 114	Staff
		T8	T8	1	8:00-9:50	Tu	T 26 R 114	Staff
				2	1:00-2:50	W	T 26 R 114	Staff
Engineering Drawing II	205-3	1	1	1	8:00-9:50	M	T 26 R 114	Staff
		2	2	2	11:00-12:50	W	T 26 R 114	Staff
		3	3	3	3:00-4:50	W	T 26 R 114	Staff
		4	4	4	1:00-2:50	M	T 27 R 114	Staff
		5	5	4	3:00-4:50	W	T 27 R 114	Staff
		T6	T6	1	6:00-9:00 P.M.	Tu	T 26 R 114	Staff
				2	8:00-9:50	W	T 27 R 114	Staff
				1	1:00-2:50	Th	T 26 R 114	Staff
				1	8:00-9:50	MTu	T 26 R 114	Staff
				2	11:00-12:50	MTu	T 26 R 114	Staff
Descriptive Geometry	206-4	101, Math. 112						

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor			
APPLIED SCIENCE (AP S) (Continued)												
Descriptive Geometry	206-4		F	W	S	3 4	1:00-2:50 3:00-4:50	MTu MTu	ThF	T 26 R 114	Staff	
			TS			11:00-12:50	MTu	ThF	T 26 R 114	Staff		
Analytical Mechanics (Statics)	260-3	Math. 251, Physics 211	1				8:00-8:50	M	W	F	T 26 R 110	Staff
			2				9:00-9:50	M	W	F	T 26 R 110	Staff
			3				11:00-11:50	M	W	F	T 26 R 110	Staff
			4				2:00-2:50	M	W	F	T 26 R 110	Staff
Analytical Mechanics (Dynamics I)	261-3	260	1				11:00-11:50	M	W	F	Ag 174	Mr. Nigro
			1				8:00-8:50	M	W	F	ApS Lab 130	Staff
			2				11:00-11:50	M	W	F	T 26 R 110	Staff
			3				1:00-1:50	M	W	F	ApS Lab 130	Staff
Analytical Mechanics (Dynamics II)	262-3	261	1				8:00-8:50	M	W	F	T 26 R 110	Mr. Stoever
			1				9:00-9:50	M	W	F	T 26 R 110	Staff
			2				1:00-1:50	M	W	F	ApS Lab 110	Staff
			3				2:00-2:50	M	W	F	T 26 R 110	Staff
Surveying I	263-4	101, Math. 112	1				9:00-9:50 2:00-4:50	Tu Tu	Th Th	ApS Lab 120 ApS Lab 120	Mr. Moeller	
							9:00-9:50	Tu	Th	ApS Lab 120	Mr. Moeller	
Surveying II	264-4	263	1				2:00-4:50	Tu	Th	ApS Lab 120	Mr. Nigro	
			1				12:00-12:50	Tu	Th	ApS Lab 120	Mr. Moeller	
			Laboratory to be arranged									
Thermodynamics I Thermodynamics II Heat Transfer	300-3 301-3 302-3	Math. 253, Physics 213 300 301	1				11:00-11:50 9:00-9:50 9:00-9:50	M M	W W	F F	ApS Lab 130 ApS Lab 130 ApS Lab 130	Mr. Stoever Mr. Stoever Mr. Dunning
			1				12:00-12:50	Tu	Th	S	ApS Lab 130	Mr. Dunning
			1				To be arranged					Mr. Dunning
			1				11:00-11:50	M	W	F	ApS Lab 110	Mr. DuBois
Advanced Heat Power Applied Mechanics I	303-3 306-3	Math. 112	2				12:00-12:50	M	W	F	T 26 R 110	Mr. Stoever
			1				4:00-4:50	MTuWThF	ThF	T 26 R 110	Mr. Anderson	
			1				1:00-1:50	MTuWThF	ThF	T 26 R 110	Mr. DuBois	
			1				3:00-3:50	M	W	F	T 26 R 110	Mr. Stoever
Machine Design I Machine Design II Applied Mechanics II	308-5 309-5 310-3	306 308 306	2				11:00-11:50	M	W	F	Ag 146	Mr. DuBois
			1				9:00-9:50	M	W	F	ApS Lab 120	Mr. Nigro
			1				2:00-2:50	M	W	F	T 26 R 110	Mr. Nigro

Strength of Materials II	312-3	311	1	9:00-9:50 8:00-8:50 10:00-10:50 2:00-2:50	Tu Th S S F W	T 26 R 110 T 26 R 110 T 26 R 110 ApS Lab 120	Mr. Moeller Mr. Glenn Mr. Glenn Mr. Glenn
Fluid Mechanics	313-4	262	1	11:00-11:50 To be arranged	MTu ThF	ApS Lab 130	Mr. Moeller
Soil Mechanics	314-4	311, 315	1	2:00-4:50	W	ApS Lab 120	Mr. Glenn
Strength of Materials Lab I	315-1	311	1	2:00-4:50	Th	ApS Lab 120	Mr. Nigro
Strength of Materials Lab II	316-1	312	1	2:00-4:50	W	ApS Lab 120	Mr. Moeller
Construction	317-3	Jr. Standing	1	To be arranged	F	ApS Lab 120	Mr. Nigro
Fluid Mechanics Lab	318-1	313	1	8:00-10:50	W	ApS Lab 120	Mr. Moeller
Mechanical Laboratory	320-3	301	1	2:00-4:50	W	ApS Lab 130	Mr. Moeller
Metallurgy	321-3	Jr. Standing	1	2:00-4:50	W	ApS Lab 130	Mr. Moeller
Electric and Magnetic Circuits	331-4	Math. 253, Physics 213	1	10:00-10:50 11:00-11:50	W F S	ApS Lab 130	Mr. Dunning
Electric and Magnetic Fields	332-4	331	1	12:00-12:50	Tu Th S	ApS Lab 130	Mr. Dunning
D.C. and A.C. Machines I	333-3	332	1	2:00-4:50	M W F	ApS Lab 110	Mr. Anderson
D.C. and A.C. Machines II	334-3	333, Math. 306	1	2:00-4:50	Tu	ApS Lab 110	Mr. Crosby
Electronics	335-3	332, Math. 306	1	2:00-4:50	Th	ApS Lab 110	Mr. Crosby
Electrical Measurements	336-3	333	1	8:00-8:50	Tu Th	ApS Lab 110	Mr. Crosby
Instrumentation	338-3	333	1	9:00-9:50	Tu Th S	ApS Lab 110	Mr. Crosby
Kinematics and Mechanisms	340-4	262	1	12:00-12:50	M W F	ApS Lab 110	Mr. Crosby
Design of Machine Elements I	342-3	312	1	12:00-12:50	Tu Th	T 26 R 110	Mr. Stoever
Design of Machine Elements II	343-3	342	1	11:00-11:50	S	T 26 R 110	Mr. Stoever
Structural Analysis I	344-3	312, 316	1	Lab to be arranged			Mr. Dunning
Structural Analysis II	345-3	344	1	12:00-12:50	M W F	ApS Lab 130	Mr. Dunning
Power Plants	346-3	301	1	8:00-8:50	M W F	ApS Lab 120	Mr. Glenn
Structures	347-3	345	1	12:00-12:50	M W F	ApS Lab 130	Mr. Dunning
Engineering Economy	361-4	Econ. 205, Jr. Standing	1	1:00-1:50	MTu Th	ApS Lab 120	Staff
Inspection Trip	363-0	Sr. Stand.	1	11:00-11:50	MTu ThF	Ag 116	Mr. Moeller
			1	8:00-8:50	MTu ThF	ApS Lab 130	Mr. Anderson

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor			
ART (ART)												
Basic Studio 1	100-5		1A	1B	1C	8:00-9:50	MTuW	F	Mr. Harris Mr. Harris Staff Staff			
			2A	2B	2C	11:00-12:50	MTuW	F				
			3A	3A	3B	1:00-2:50	MTuW	F				
			4A	4B	T4A	3:00-4:50	MTuW	F				
Introduction to Art	120-3		1			2:00-2:50	Tu	Th	Mr. Shryock Staff			
						4:00-4:50	W					
				I	I	2:00-2:50	Tu	Th	Mr. Shryock Staff			
						8:00-8:50	F					
			2			3:00-3:50	Tu	Th	Mr. Shryock Staff			
						4:00-4:50	W					
				2	2	3:00-3:50	Tu	Th	Mr. Shryock Staff			
						8:00-8:50	F					
			(Students registering for Art 120 must also register for a 120A studio section. The lecture sessions meeting at 4:00 to 4:50 and from 8:00 to 8:50 meet only every other week. Studio sections also meet only every other week. Students registered in Section 1 for Art 120 will meet their 4 o'clock or 8 o'clock lecture sessions the first week of the quarter and those registered in Section 2 for Art 120 will meet their 4 o'clock or 8 o'clock lecture sessions the second week of the quarter. Students registered for studio sections Number 1 through 7 will meet during the first week of a quarter, while those registered for Sections 8 through 15 will meet the second week of a quarter. In all cases they will then meet on alternate weeks.)									
			(Studio)	120A-0		1	1	1	8:00-9:50	Th	A 102	Staff
2	2	2				3:00-4:50	Th	A 106	Staff			
3	3	3				6:00-7:50 P.M.	Th	A 106	Staff			
4	4	4				8:00-9:50	S	A 106	Staff			
5	5	5				10:00-11:50	S	A 106	Staff			
6	6	6				8:00-9:50	S	A 112	Staff			
7	7	7				10:00-11:50	S	A 112	Staff			
8	8	8				8:00-9:50	Th	A 102	Staff			
9	9	9				3:00-4:50	Th	A 106	Staff			
10	10	10				6:00-7:50 P.M.	Th	A 106	Staff			
11	11	11				8:00-9:50	S	A 106	Staff			
12	12	12				10:00-11:50	S	A 106	Staff			
13	13	13				8:00-9:50	S	A 112	Staff			
14	14	14				10:00-11:50	S	A 112	Staff			
T15	T15	T15				6:00-7:50 P.M.	Th	A 112	Staff			
Studio Disciplines	200-5		1	1	1	8:00-9:50	MTuW	F	Mr. Sullivan			
			2	2	2	1:00-2:50	MTuW	F	Mr. Breland			
			3	3	3	3:00-4:50	MTuW	F	Mr. Breland			

History of World Art Survey I	225-3	1	11:00-11:50	M	W	F	A 106	Staff
		2	2:00-2:50	M	W	F	A 106	Staff
History of World Art Survey II	226-3	1	11:00-11:50	M	W	F	A 106	Staff
		2	2:00-2:50	M	W	F	A 106	Staff
History of World Art Survey III	227-3		11:00-11:50	M	W	F	A 106	Staff
		1	2:00-2:50	M	W	F	A 106	Staff
Jewelry	231-4	1	8:00-9:50	M	W	F	A 11	Mr. Whiteside
Drawing	241-2 to 4	1	6:00-9:00 P.M.	M	W		A 200	Staff
Art Education	300-4	1	3:00-4:50	M	W	F	USch 105	Staff
Pottery	302-4	1	1:00-3:50	Tu	Th		A 5	Mr. Vergette
		2	6:00-9:00 P.M.	Tu	Th		A 5	Mr. Vergette
Material and Techniques in Art Education	306-3	1	2:00-2:50	M	W	F	USch 105	Miss Schwartz
Theory and Philosophy of Art Education	307-3		2:00-2:50	M	W	F	USch 105	Miss Schwartz
Curriculum and Administration in Art Education	308-3	1	2:00-2:50	M	W	F	USch 105	Miss Schwartz
Studio	325-2 to 15	1	To be arranged				A 200	Staff
Jewelry and Silversmithing	332-4	1	1:00-2:50	M	W	F	A 11	Staff
Art of the Nineteenth Century	345-3	1	9:00-9:50	M	W	F	A 102	Mr. Watkins
Ancient Art	347-3	1	8:00-8:50	M	W	F	A 102	Mr. Watkins
Medieval Art	348-3	1	9:00-9:50	M	W	F	A 102	Mr. Sanderson
American Art	350A-3	1	4:00-4:50	M	W	F	A 102	Staff
American Art	350B-3		4:00-4:50	M	W	F	A 102	Staff
American Art	350C-3	1	4:00-4:50	M	W	F	A 102	Staff
Prints	358-4		6:30-9:30 P.M.	M	W		A 16	Staff
		1	11:00-1:50	Tu	Th		A 16	Staff
Weaving	385-4	1	1:00-3:50	Tu	Th		A 206	Mrs. McDaniel
		2	6:00-9:00 P.M.	M	W		A 206	Mrs. McDaniel
Sculpture	393-4	1	11:00-1:50	M	W	F	A 6	Mr. Sullivan
Research in Painting	401-2 to 12	1	To be arranged				USch 111	Staff
Research in Art Education	402-2 to 12	Tl	To be arranged					Miss Schwartz
Studio in Painting	406-2 to 12	1	To be arranged					Staff
Research in Prints	410-2 to 12	1	To be arranged					Staff
Studio in Prints	416-2 to 12	1	To be arranged					Mr. Vergette
Research in Pottery	420-2 to 12	1	To be arranged					Mr. Vergette
Studio in Pottery	426-2 to 12	1	To be arranged					Staff
Research in Metal Construction	430-2 to 12	1	To be arranged					Staff
Studio in Metal Construction	436-2 to 12	1	To be arranged					Staff
Research in Weaving	440-2 to 12	1	To be arranged					Mrs. McDaniel

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
ART (ART) (Continued)								
Art of the Twentieth Century	443-3				9:00-9:50	M W F	A 102	Mr. Watkins
Studio in Weaving	446-2 to 12		1	1	To be arranged		A 102	Mrs. McDaniel
Renaissance Art	449-3			1	1:00-1:50	M W F	A 102	Staff
Romantic Art of Nineteenth Century	473-3			1	8:00-8:50	M W F	A 102	Mr. Watkins
Art History Seminar: Late Antique Art	482A-3		1		6:00-9:00 P.M.	M WTh	A 102	Mr. Sanderson
Art History Seminar: Byzantine Art	482B-3			1	6:00-9:00 P.M.	M WTh	A 102	Mr. Sanderson
Art History Seminar: Romanesque Art	482C-3			1	6:00-9:00 P.M.	M WTh	A 102	Mr. Sanderson
in Western Europe								
Studio in Art Education	466-2 to 12		1	1	To be arranged		USch 111	Miss Schwartz
Research in Art History	483-3 to 9		1	1	To be arranged			Staff
Advanced Sculpture	493-4		1	1	11:00-1:50	M W F	A 6	Mr. Sullivan
Seminar in Painting	501-2 to 12		1	1	To be arranged		A 200	Staff
Research in Painting	506-2 to 12		1	1	To be arranged		A 111	Staff
Seminar in Prints	511-2 to 12		1	1	To be arranged		A 111	Staff
Research in Prints	516-2 to 12		1	1	To be arranged		A 111	Staff
Seminar in Pottery	520-2 to 12		1	1	To be arranged		A 5	Mr. Vergette
Research in Pottery	526-2 to 12		1	1	To be arranged		A 5	Mr. Vergette
Seminar in Metal Construction	530-2 to 12		1	1	To be arranged			Staff
Research in Metal Construction	536-2 to 12		1	1	To be arranged			Staff
Seminar in Weaving	540-2 to 12		1	1	To be arranged			Staff
Research in Weaving	546-2 to 12		1	1	To be arranged			Mrs. McDaniel
Seminar in Art Education	560-2 to 12		1	1	To be arranged			Mrs. McDaniel
Research in Art Education	566-2 to 12		1	1	To be arranged			Miss Schwartz
Readings: The History of Art	571-2 to 5,		1	1	To be arranged			Staff
Problems in Art History	573-3 to 12		1	1	To be arranged			Staff
Thesis	599-5 to 9		1	1	To be arranged			Staff

¹ Should be taken in sequence: A, first course; B, second course; C, third course.

ASIAN STUDIES

Students interested in a minor in asian studies should consult Mr. Ping-Chia Kuo, Chairman, Committee on Asian Studies. Offices are located in Old Main.

ASTRONOMY (ASTR)

Introduction to Astronomy

201-4

TI

4:00-4:50

MTuWTh

P 301

Miss Zimmerschied

BOTANY (BOT)

General Botany

101-5

1	1	8:00-9:50	Tu Th	LS 307	Staff
2	2	9:00-9:50	M W F	LS 133	Staff
3	3	8:00-9:50	Tu Th	LS 308	Staff
4	4	9:00-9:50	M W F	LS 133	Staff
5	5	8:00-9:50	M W F	LS 307	Staff
6	6	7:35-9:00 P.M.	M W F	LS 133	Staff
7	7	8:00-9:50	M W	LS 308	Staff
8	8	7:35-9:00 P.M.	M W	LS 133	Staff
9	9	8:00-9:50	M W	LS 307	Staff
10	10	9:00-9:50	M W F	LS 133	Staff
11	11	11:00-12:50	Tu Th	LS 308	Staff
12	12	9:00-9:50	M W F	LS 133	Staff
13	13	11:00-12:50	M W F	LS 307	Staff
14	14	7:35-9:00 P.M.	M W	LS 133	Staff
15	15	8:00-9:50	M W	LS 308	Staff
16	16	7:35-9:00 P.M.	M W	LS 133	Staff
17	17	10:00-11:50	M W F	LS 307	Staff
18	18	1:00-1:50	M W F	LS 133	Staff
19	19	1:00-1:50	M W F	LS 308	Staff
20	20	1:00-1:50	M W F	LS 133	Staff
21	21	3:00-4:50	M W F	LS 307	Staff
		6:00-9:25 P.M.	Tu	LS 133	Staff

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
BOTANY (BOT) (Continued)								
Ecology of Grasses and Grasslands	440-4	340	1		10:00-10:50 10:00-11:50	W F S	LS 313	Mr. Voigt
Plant Geography	450-3	340	1		Saturday trips to be arranged			
Methods in Biology	470-4	Minor in Botany or Zoology		1	8:00-8:50 3:00-3:50 3:00-4:50	Tu ThF M W Tu Th	LS 313 LS 315	Mr. Ashby Mr. Welch
Angiosperm Taxonomy I	503-5	203	1		3:00-3:50 3:00-4:50	Tu ThF M W	LS 313	Mr. Mohlenbrock
Angiosperm Taxonomy II	504-5	503	1		3:00-3:50 3:00-4:50	Tu ThF M W	LS 313	Mr. Mohlenbrock
Advanced Histological Technique	522-3	Consent of Dept.	1		To be arranged	Tu Th	LS 315	Mr. Olah
Cytology	525-5	315	1		8:00-9:50 9:00-9:50	M W F M W	LS 315	Mr. Olah
Cytogenetics	526-5	525		1	8:00-9:50 9:00-9:50	Tu Th M W F	LS 315	Mr. Olah
Ecology of Forests	540-5 ²	340	1		10:00-10:50	W FS	LS 326	Mr. Ashby
Genecology	542-3	340	1		9:00-9:50	M W F	LS 313	Mr. Ashby
Experimental Ecology	543-5	320, 340		1	11:00-12:50	TuWThF	LS 313	Mr. Ashby
Mississippi Flora Upland	551-4	451		1	3:00-3:50	M W	LS 326	Mr. Mohlenbrock
Advanced Plant Pathology I	555-4		T1		3:00-4:50	Tu Th	LS 313	Mr. Mohlenbrock
Advanced Plant Pathology II	556-4			T1	10:00-11:50 11:00-11:50	W F T Th	LS 315	Staff
Advanced Plant Pathology III	557-4				3:00-3:50	W W	LS 326	Staff
Readings	570-2 to 5		1	1	To be arranged	T Th	LS 315	Staff
Seminar	580-1		1	1	To be arranged	W F	LS 315	Staff
Introduction to Research	590-2 to 4		1	1	To be arranged	T Th	LS 326	Staff
Research	591-3 to 6		1	1	To be arranged			Staff
Thesis	599-3 to 9		1	1	To be arranged			Staff
Doctoral Dissertation	600-3 to 20		T1	T1	To be arranged			Staff

¹ Cross-listed with Plant Industries.² Field Trips and Saturday sessions to be arranged.

1	8:00-8:50	W	FS	Browne	Staff
	8:00-8:50	Tu		P 204	Staff
2	5:45-8:35 P.M.	W		P 206	Staff
	8:00-8:50	W	FS	Browne	Staff
3	8:00-8:50	Tu		P 204	Staff
	3:00-5:50	M		P 206	Staff
	8:00-8:50	W	FS	Browne	Staff
4	8:00-8:50	Tu		P 204	Staff
	1:00-3:50	W		P 206	Staff
	8:00-8:50	W	FS	Browne	Staff
5	8:00-8:50	M		P 111	Staff
	3:00-5:50	W		P 200	Staff
	8:00-8:50	W	FS	Browne	Staff
6	8:00-8:50	M		P 111	Staff
	10:00-12:50	F		P 200	Staff
	8:00-8:50	W	FS	Browne	Staff
7	8:00-8:50	M		P 111	Staff
	1:00-3:50	W		P 213	Staff
	4:00-4:50	Tu, ThF		Browne	Staff
8	4:00-4:50	W		P 204	Staff
	3:00-5:50	M		P 200	Staff
	4:00-4:50	Tu, ThF		Browne	Staff
9	4:00-4:50	W		P 204	Staff
	12:00-2:50	Tu, ThF		P 200	Staff
	4:00-4:50	W		Browne	Staff
10	4:00-4:50	M		P 206	Staff
	12:00-2:50	Tu, ThF		Browne	Staff
	4:00-4:50	W		P 204	Staff
	12:00-2:50	M		P 213	Staff
1	1:00-1:50	Tu, ThF		Browne	Staff
	1:00-1:50	W		P 107	Staff
2	12:00-2:50	M		P 200	Staff
	1:00-1:50	Tu, ThF		Browne	Staff
	1:00-1:50	W		P 107	Staff
3	12:00-2:50	M		P 206	Staff
	1:00-1:50	Tu, ThF		Browne	Staff
	1:00-1:50	W		P 107	Staff
4	12:00-2:50	M		P 213	Staff
	1:00-1:50	Tu, ThF		Browne	Staff
	1:00-1:50	M		P 107	Staff
	2:00-4:50	F		P 206	Staff

12	1:00-2:50	Tu Th	P 206	Staff
	11:00-11:50	M W F	Browne	Mr. Garrison
	2:00-2:50	W	P 107	Staff
13	1:00-2:50	Tu Th	P 213	Staff
	3:00-3:50	M W F	Browne	Mr. Neckers
	4:00-4:50	M	P 107	Staff
14	3:00-4:50	Tu Th	P 200	Staff
	3:00-3:50	M W F	Browne	Mr. Neckers
	4:00-4:50	M	P 107	Staff
15	3:00-4:50	Tu Th	P 206	Staff
	3:00-3:50	M W F	Browne	Mr. Neckers
	4:00-4:50	M	P 107	Staff
16	3:00-4:50	Tu Th	P 213	Staff
	3:00-3:50	M W F	Browne	Mr. Neckers
	4:00-4:50	M	P 107	Staff
	8:00-9:50	Tu	P 200	Staff
17	10:00-11:50	S	P 200	Staff
	3:00-3:50	M W F	Browne	Mr. Neckers
	4:00-4:50	W	P 107	Staff
	11:00-12:50	W	P 206	Staff
18	10:00-11:50	S	P 206	Staff
	3:00-3:50	M W F	Browne	Mr. Neckers
	4:00-4:50	W	P 107	Staff
	8:00-9:50	Tu	P 213	Staff
19	10:00-11:50	S	P 213	Staff
	6:00-7:15 P.M.	M W	Browne	Staff
	7:25-8:15 P.M.	M	P 204	Staff
20	6:00-7:50 P.M.	Tu Th	P 200	Staff
	6:00-7:15 P.M.	M W	Browne	Staff
	7:25-8:15 P.M.	M	P 204	Staff
21	6:00-7:50 P.M.	Tu Th	P 206	Staff
	6:00-7:15 P.M.	M W	Browne	Staff
	7:25-8:15 P.M.	M	P 204	Staff
22	6:00-7:50 P.M.	Tu Th	P 213	Staff
	6:00-7:15 P.M.	M W	Browne	Staff
	7:25-8:15 P.M.	M	P 204	Staff
	4:00-5:50 P.M.	W F	P 213	Staff
	11:00-11:50	M W F	Browne	Staff
	12:00-12:50	M	P 204	Staff
	11:00-12:50	Tu Th	P 200	Staff
	11:00-11:50	M W F	Browne	Staff
	12:00-12:50	M	P 204	Staff
	11:00-12:50	Tu Th	P 206	Staff

Chemical Principles and Inorganic
Chemistry 111-5

1

2

	10:00-10:50	W	F	Browne	Mr. Van Lente
	9:00-9:50	F		P 107	Staff
	8:00-9:50	Th	S	P 206	Staff
5	9:00-9:50	Tu		Browne	Mr. Van Lente
	10:00-10:50	W	F	Browne	Mr. Van Lente
	8:00-8:50	W		P 107	Staff
	8:00-9:50	M	Th	P 213	Staff
6	9:00-9:50	Tu		Browne	Mr. Van Lente
	10:00-10:50	W	F	Browne	Mr. Van Lente
	9:00-9:50	Th		P 107	Staff
	8:00-9:50	W	S	P 213	Staff
7	2:00-2:50	M	W	Browne	Mr. Neckers
	1:00-1:50	M	F	P 111	Staff
	1:00-2:50	Tu	Th	P 200	Staff
8	2:00-2:50	M	W	Browne	Mr. Neckers
	1:00-1:50	W		P 111	Staff
	1:00-2:50	Tu	Th	P 206	Staff
9	2:00-2:50	M	W	Browne	Mr. Neckers
	1:00-1:50	F		P 111	Staff
	1:00-2:50	Tu	Th	P 213	Staff
10	2:00-2:50	M	W	Browne	Mr. Neckers
	1:00-1:50	Tu		P 111	Staff
	8:00-9:50	Tu		P 200	Staff
	10:00-11:50	S		P 200	Staff
11	2:00-2:50	M	W	Browne	Mr. Neckers
	1:00-1:50	Th		P 111	Staff
	8:00-9:50	Tu		P 206	Staff
	10:00-11:50	S		P 206	Staff
12	2:00-2:50	M	W	Browne	Mr. Neckers
	9:00-9:50	Th		P 111	Staff
	8:00-9:50	Tu	F	P 213	Staff
13	6:00-7:15 P.M.	M	W	Browne	Mr. Garrison
	7:25-8:15 P.M.	M		P 111	Mr. Garrison
	6:00-7:50 P.M.	Tu	Th	P 200	Staff
14	6:00-7:15 P.M.	M	W	Browne	Mr. Garrison
	7:25-8:15 P.M.	W		P 111	Mr. Garrison
	6:00-7:50 P.M.	Tu	Th	P 206	Staff
15	6:00-7:15 P.M.	M	W	Browne	Mr. Garrison
	7:25-8:15 P.M.	W		P 107	Mr. Garrison
	6:00-7:50 P.M.	Tu	Th	P 213	Staff
	11:00-11:50	M	W	Browne	Staff
	12:00-12:50	M	F	P 107	Staff
	11:00-12:50	Tu	Th	P 200	Staff

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
CHEMISTRY (CHEM) (Continued)								
Chemical Principles and Inorganic Chemistry	112-5							
			2		11:00-11:50 12:00-12:50	M W F W	Browne P 107	Staff
			3		11:00-12:50 11:00-11:50	Tu Th M W F	P 206 Browne	Staff
					12:00-12:50 11:00-12:50	F Tu	P 107 P 213	Staff
			4		10:00-11:50 11:00-11:50	S M W F	P 213 Browne	Staff
					12:00-12:50 6:00-7:50 P.M.	Tu M W	P 107 P 206	Staff
			5		11:00-11:50 12:00-12:50	M W F Th	Browne P 107	Staff
			6		8:00-9:50 11:00-11:50	M Th M W F	P 206 Browne	Staff
					1:00-2:50 10:00-10:50	Tu Tu	P 111 P 200	Staff
Inorganic Chemistry and Qualitative Analysis	113-5	112	1		8:00-9:50 9:00-9:50	Tu M W F	Browne P 107	Mr. Van Lente
					10:00-10:50 9:00-9:50	W F W F	P 200 Browne	Mr. Van Lente
			2		8:00-9:50 9:00-9:50	Tu M W F	P 200 P 107	Staff
					10:00-10:50 9:00-9:50	W F W F	Browne P 213	Mr. Van Lente
			3		8:00-9:50 9:00-9:50	M W F M	Browne P 107	Staff
					10:00-10:50 9:00-9:50	W F Tu Th S	P 200 Browne	Mr. Van Lente
			4		8:00-9:50 9:00-9:50	W F M	P 107 P 213	Mr. Van Lente
					10:00-10:50 9:00-9:50	Tu Th S W F	P 200 Browne	Mr. Van Lente
			T5		8:00-9:50 10:00-10:50	M Tu	P 213 Browne	Staff
					9:00-9:50 5:00-6:50 P.M.	W F MTu	P 107 P 213	Mr. Van Lente
			6		1:00-1:50 2:00-2:50	Tu Th Tu	Browne P 107	Mr. Neckers
					1:00-2:50 1:00-1:50	M W F Tu Th	P 200 Browne	Mr. Neckers
			7		2:00-2:50 1:00-2:50	Tu M W F	P 107 P 213	Mr. Neckers
					1:00-2:50 1:00-1:50	Tu Th Tu	Browne P 213	Mr. Neckers
			8		1:00-1:50	M W F Tu Th	P 213 Browne	Staff

[illegible]

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
CHEMISTRY (CHEM) (Continued)			F	W	S				
Organic Chemistry	240-4								
			3			11:00-11:50	MTuWTh	P 204	Mr. Hadley
						10:00-12:50	F	P 213	Staff
			T4			11:00-11:50	MTuWTh	P 204	Mr. Hadley
						1:00-3:50	Tu	P 213	Staff
Organic Chemistry, Pre-Professional	305-4	112	1			11:00-11:50	TuW	P 204	Mr. Hadley
						11:00-12:50	M	P 205	Staff
			2			11:00-11:50	TuW	P 204	Mr. Hadley
						11:00-12:50	Th	P 205	Staff
			3			11:00-11:50	TuW	P 204	Mr. Hadley
						9:00-11:50	F	P 205	Staff
			4			11:00-11:50	TuW	P 204	Mr. Hadley
						1:00-3:50	M	P 205	Staff
Organic Chemistry, Pre-Professional	306-4	305	1			11:00-11:50	W	P 204	Mr. Hadley
						11:00-12:50	M	P 205	Staff
			2			11:00-11:50	W	P 204	Mr. Hadley
						1:00-2:50	M	P 205	Staff
			3			11:00-11:50	W	P 204	Mr. Hadley
						3:00-4:50	M	P 205	Staff
Introductory Quantitative Analysis	331-3	221	1			2:00-2:50	Tu	P 107	Mr. Van Atta
						2:00-4:50	M	P 103	Mr. Van Atta
			2			2:00-2:50	Tu	P 107	Mr. Van Atta
						2:00-4:50	W	P 103	Mr. Van Atta
			T3			2:00-2:50	Tu	P 107	Mr. Van Atta
						2:00-4:50	F	P 103	Mr. Van Atta
Organic Chemistry	341-4	113	1			8:00-8:50	MTu	P 205	Mr. Moulton
						8:00-10:50	W	Browne	Staff
			2			8:00-8:50	MTu	Browne	Staff
						8:00-10:50	Th	P 205	Mr. Moulton
			3			8:00-8:50	MTu	Browne	Staff
						1:00-3:50	W	P 205	Mr. Moulton
			4			8:00-8:50	MTu	Browne	Staff
						1:00-3:50	Th	P 205	Mr. Moulton
			5			8:00-8:50	MTu	Browne	Staff
						1:00-3:50	Th	P 205	Mr. Moulton
Organic Chemistry	342-5	341	1			8:00-8:50	MTu	Browne	Staff
						8:00-10:50	W	P 205	Staff

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
CHEMISTRY (CHEM) (Continued)								
Biochemistry	452-4	451		1	1:00-1:50	Tu ThF	P 107	Staff
					1:00-3:50	M	P 115	Staff
Theoretical Chemistry	460-5	235 or 331 and 306 or 343	1		2:00-2:50	M W F	P 111	Mr. Musulin
					12:00-2:50	Tu Th	P 103	Mr. Musulin
Physical Chemistry	461-4	343, 331,* Math. 253, 12 Hrs. Phys.	1		11:00-11:50	MTu Th	P 107	Mr. Van Lente
			2		10:00-12:50	W	P 104	Mr. Van Lente
					11:00-11:50	MTu Th	P 107	Mr. Van Lente
			3		10:00-12:50	F	P 104	Mr. Van Lente
					11:00-11:50	MTu Th	P 107	Mr. Van Lente
					1:00-3:50	Th	P 104	Mr. Van Lente
Physical Chemistry	462-4	461	1		11:00-11:50	MTu Th	P 107	Mr. Van Lente
					10:00-12:50	W	P 104	Mr. Van Lente
			2		11:00-11:50	MTu Th	P 107	Mr. Van Lente
					10:00-12:50	F	P 104	Mr. Van Lente
			3		11:00-11:50	MTu Th	P 107	Mr. Van Lente
					1:00-3:50	Th	P 104	Mr. Van Lente
Physical Chemistry	463-4	462		1	11:00-11:50	MTu Th	P 107	Mr. Van Lente
					10:00-12:50	W	P 104	Mr. Van Lente
			2		11:00-11:50	MTu Th	P 107	Mr. Van Lente
					10:00-12:50	F	P 104	Mr. Van Lente
			3		11:00-11:50	MTu Th	P 107	Mr. Van Lente
					1:00-3:50	Th	P 104	Mr. Van Lente
Industrial Chemistry	471-3	306 or 343		1	8:00-8:50	M W F	P 111	Mr. Hadley
Chemical Literature	490-2	Ger. 103*	1		3:00-3:50	Tu Th	P 111	Mr. Trimble
					4:00-4:50	Tu Th	P 111	Mr. Trimble
Chemical Problems	496-2 to 6	Consent of Dept.	1	1	To be arranged		P 112	Staff
Advanced Inorganic Chemistry	511-3	411 and 460 or 463	1		3:00-3:50	M W F	P 111	Mr. Trimble
Advanced Inorganic Chemistry	512-3	511		1	3:00-3:50	M W F	P 111	Mr. Trimble
Advanced Inorganic Chemistry	513-3	512	1		3:00-3:50	M W F	P 111	Mr. Trimble
Theory of Quantitative Analysis	531-3	433	1		To be arranged			Mr. Sellers
Instrumental Methods of Analysis	532-2 to 3	460 or 462 *	1		4:00-4:50	M	P 104B	Mr. Sellers
					Laboratory to be arranged			
Industrial Analytical Methods	533-3	532		1	12:00-12:50	MTu Th	P 204	Mr. Sellers
Advanced Organic Chemistry	541-3	444	1		9:00-9:50	MTu F	P 111	Mr. Beyler
Advanced Organic Chemistry	542-3	541		1	9:00-9:50	M W F	P 111	Mr. Beyler
Advanced Organic Chemistry	543-3	542		1	2:00-2:50	M W F	P 204	Mr. Beyler

Advanced Biochemistry	551-3	452	T1		3:00-3:50	Tu	ThF	P 204	Staff
Advanced Biochemistry	552-3	452		T1		Tu	ThF	P 204	Staff
Advanced Biochemistry	553-3	452			T1	Tu	ThF	P 204	Staff
Chemical Thermodynamics	561-3	463	1			M	W F	P 111	Mr. Musulin
Atomic and Molecular Structure	562-3	561		1		M	W F	P 111	Mr. Musulin
Chemical Kinetics	563-3	562			1	M	W F	P 111	Mr. Musulin
Graduate Seminar	575-0 to 2	Grad. standing	1	1			To be arranged		Mr. Beyler
Advanced Chemical Problems	596-3 to 9	Consent of Dept.	1	1			To be arranged	P 112	Staff
Research and Thesis	599-3 to 15	Consent of Dept.	1	1			To be arranged	P 112	Staff

* May be taken concurrently.

CLOTHING AND TEXTILES (C & T)

Clothing Selection and Construction	127-4								
Textiles	135-3		1		9:00-10:50	TuW	FS	HEc 310	Miss Whitesel
			2		1:00-2:50	MTu	ThF	HEc 310	Miss Whitesel
			3		3:00-4:50	MTu	ThF	HEc 304	Miss Barra
			4		8:00-9:50	MTuW	F	HEc 304	Miss Hoffman
				1	10:00-11:50	TuW	FS	HEc 310	Miss Barra
				T2	3:00-4:50	MTuWTh		HEc 310	Staff
			1		8:00-9:50	W	F	HEc 304	Miss Hoffman
			2		9:00-10:50	Tu	S	HEc 304	Miss Barra
			3		3:00-4:50	Tu	Th	HEc 304	Miss Barra
				1	10:00-11:50	W	F	HEc 304	Miss Hoffman
			2		8:00-9:50	Tu	Th	HEc 304	Miss Barra
			1		1:00-2:50	Tu	Th	HEc 304	Mrs. Evans
					1:00-1:50	W		HEc 304	Mrs. Evans
Decorative Design	141-3	230							
Applied Design	230-3	Art 120	1		8:00-8:50	Tu	Th S	HEc 304	Mrs. Evans
			2		9:00-9:50	Th		HEc 304	Mrs. Evans
					11:00-12:50	M		HEc 304	Mrs. Evans
			3		11:00-11:50	W	F	HEc 304	Mrs. Evans
					2:00-3:50	M		HEc 304	Mrs. Evans
					3:00-3:50	W	F	HEc 304	Mrs. Evans
			1		1:00-2:50	M		HEc 304	Mrs. Evans
					2:00-2:50	W	F	HEc 304	Mrs. Evans
					8:00-9:50	M		HEc 310	Miss Whitesel
			1		8:00-8:50	W	F	HEc 310	Miss Whitesel
			2		8:00-9:50	Tu	Th	HEc 310	Miss Whitesel
			3		9:00-9:50	W	F	HEc 310	Miss Whitesel
					1:00-2:50	M		HEc 310	Miss Whitesel
					1:00-1:50	W	F	HEc 310	Miss Whitesel
Pattern Designing and Clothing Construction	233-3	127, 135, 230							

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
CLOTHING AND TEXTILES (C & T) (continued)								
Clothing Selection and Care	251-3		F	W	S			
			1		8:00-8:50	M W F	HEc 304	Miss Hoffman
			2		11:00-11:50	MTu Th	HEc 304	Miss Hoffman
Housing and Home Furnishing	326-5		1		11:00-11:50	MTuWThF	HEc 304	Mrs. Evans
					12:00-12:50	M W	HEc 304	Mrs. Evans
			1		4:00-4:50	MTuWThF	HEc 304	Mrs. Evans
					3:00-3:50	Tu Th	HEc 304	Mrs. Evans
					1:00-2:50	Tu Th	HEc 304	Mrs. Evans
Costume Design	334-3	127, 230, or Art 100	1		8:00-9:50	MTu ThF	HEc 310	Miss Whitesel
Tailoring and Clothing Construction	360-4	233	2		11:00-12:50	MTu ThF	HEc 310	Miss Whitesel
			3		2:00-3:50	M WThF	HEc 310	Miss Whitesel
			1		2:00-2:50	TuWThF	HEc 304	Staff
Furniture and Interiors	380-4	380	1		8:00-8:50	TuWThF	HEc 310	Staff
The Modern Movement in Interior Decoration	381-4							
The Decorative Arts	382-4	326 or 390	1		11:00-11:50	TuWThF	HEc 310	Staff
Principles of Interior Decoration	390-5	Des. 260	1		1:00-1:50	MTuWThF	HEc 304	Staff
Advanced Interior Decoration	391-5	381, 382	1		12:00-2:50	Tu Th	HEc 310	Staff

COMMUNITY DEVELOPMENT INSTITUTE

Students interested in a major or minor in community development should consult Mr. Richard C. Franklin, Director, Community Development Institute. Offices are located in Chautauqua Housing, Barracks T-127.

DESIGN (DES)

Design Fundamentals	100-5		1	1	1	8:00-9:50	M W F	T 125	Mr. Roan
						11:00-11:50	M W	T 125	Mr. Roan
						4:00-4:50	Tu	LS G-16	Mr. Cohen
			2	2	2	8:00-9:50	Tu Th S	T 125	Mr. Roan
						11:00-11:50	Tu Th	T 125	Mr. Roan
						4:00-4:50	Tu	LS G-16	Mr. Cohen
			T3	T3	T3	8:00-9:50	M W F	T 125	Staff
						11:00-11:50	M W	T 125	Staff
						4:00-4:50	Tu	LS G-16	Mr. Cohen

Materials and Techniques	200-2	15 hrs. 100	T4	T4	T4	8:00-9:50 11:00-11:50 4:00-4:50	Tu Th Tu	T 125 T 125 LS G-16	Staff Staff Mr. Cohen
			1	1	1	6:00-9:00 P.M.	M	Dome 1	Staff
			2	2	2	6:00-9:00 P.M.	Tu	Dome 1	Staff
			3	3	3	6:00-9:00 P.M.	W	Dome 1	Staff
Basic Product-Shelter Design	215-4	15 hrs. 100	4	4	4	6:00-9:00 P.M.	Th	Dome 1	Staff
			T5	T5	T5	6:00-9:00 P.M.	M	Dome 2	Staff
			T6	T6	T6	6:00-9:00 P.M.	Tu	Dome 2	Staff
			1	1	1	8:00-9:50	M	T 126	Mr. Pratt
Survey of Product-Shelter Design	250-2 260-2 275-4	15 hrs. 100	1	1	1	11:00-11:50	M	T 126	Mr. Pratt
			2	2	2	10:00-10:50	W	LS G-16	Mr. Cohen
			2	2	2	8:00-9:50	Tu	T 126	Mr. Pratt
			3	3	3	11:00-11:50	Th	T 126	Mr. Pratt
Basic Visual Design	250-2 260-2 275-4	15 hrs. 100	4	4	4	6:00-9:00 P.M.	Th	LS G-16	Mr. Cohen
			T5	T5	T5	6:00-9:00 P.M.	M	To be arranged	Mr. Hunter
			T6	T6	T6	6:00-9:00 P.M.	Tu	To be arranged	Mr. Roan
			1	1	1	8:00-9:50	W	T 126	Miss Kula
Materials and Techniques	300-2	4 hrs. 200	2	2	2	11:00-11:50	Tu	T 126	Miss Kula
			3	3	3	10:00-10:50	Th	LS G-16	Mr. Cohen
			4	4	4	8:00-9:50	M	T 126	Miss Kula
			1	1	1	11:00-11:50	W	LS G-16	Mr. Cohen
Product-Shelter Design	366-5 375-5	12 hrs. 215 12 hrs. 275	2	2	2	10:00-10:50	Tu	T 126	Staff
			3	3	3	8:00-9:50	Th	Dome 4	Staff
			4	4	4	6:00-9:00 P.M.	M	Dome 4	Mr. Hunter
			1	1	1	1:00-4:50	W	T 128	Mr. Hunter
Principles of Design	390-2	4 hrs. 300	2	2	2	9:00-12:00	ThF	T 128	Mr. Hunter
			3	3	3	7:00-9:00 P.M.	S	LS G-16	Mr. Cohen
			4	4	4	6:00-9:00 P.M.	Tu	Dome 6	Staff
			1	1	1	6:00-9:00 P.M.	Th	Dome 6	Staff
Materials and Techniques	400-2	15 hrs. 366 15 hrs. 375	2	2	2	1:00-4:50	MTuW	T 128	Staff
			3	3	3	9:00-12:00	ThF	T 128	Staff
			4	4	4	6:00-9:00 P.M.	S	T 128	Staff
			1	1	1	6:00-9:00 P.M.	Tu	T 128	Staff

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
DESIGN (DES) (Continued)									
Seminar in Product-Shelter Design	500F-2 to 6	Consent of Dept.	1	1	1	1:00-4:50	M W	To be arranged	Staff
			2	2	2	1:00-4:50	Tu Th	To be arranged	Staff
Seminar in Visual Design	500G-2 to 6	Consent of Dept.	1	1	1	1:00-4:50	Tu Th	To be arranged	Staff
			2	2	2	1:00-4:50	M W	To be arranged	Staff
Research in Product-Shelter Design	510F-2 to 6	Consent of Dept.	1	1	1	To be arranged			Mr. Fuller and Staff
Research in Visual Design	510G-2 to 6	Consent of Dept.	1	1	1	To be arranged			
Thesis	599-2 to 4	Consent of Dept.	1	1	1	To be arranged			
ECONOMICS (ECON)									
Survey of Economic Principles	205-5		1			8:00-8:50	MTuWTh S	M 210	Mr. Morrison
			2			9:00-9:50	MTu ThFS	M 215	Mr. Martinsek
			3			11:00-11:50	M W F	LS 133	Mr. Wiegand
						11:00-11:50	Tu Th	M 206	Staff
						11:00-11:50	Tu Th	M 207	Staff
						11:00-11:50	Tu Th	M 210	Staff
						11:00-11:50	Tu Th	M 214	Staff
						11:00-11:50	Tu Th	M 215	Staff
			4			1:00-1:50	MTuWThF	M 215	Staff
			5			2:00-2:50	MTuWThF	M 215	Staff
			6			3:00-3:50	MTuWThF	M 215	Mr. Wiegand
			7			4:00-4:50	MTuWThF	M 215	Mr. Edelman
			8			6:00-7:25 P.M.	M WTh	M 215	Staff
				1		8:00-8:50	MTuWThF	M 215	Staff
				2		9:00-9:50	M W F	Browne	Mr. Allen
						9:00-9:50	Tu Th	M 207	Staff
						9:00-9:50	Tu Th	M 215	Staff
						9:00-9:50	Tu Th	LS G-16	Staff
						9:00-9:50	Tu Th	LS 205	Staff
						9:00-9:50	Tu Th	M 102	Staff
				3		12:00-12:50	MTuWThF	M 215	Staff
				4		1:00-1:50	MTuWThF	M 215	Mr. Morrison
				5		4:00-4:50	MTuWThF	M 215	Staff
				6		6:00-7:25 P.M.	M WTh	M 215	Staff
					1	9:00-9:50	M WThFS	M 215	Staff
					2	11:00-11:50	MTuWThF	M 215	Mr. Wiegand
					3	12:00-12:50	MTuWThF	M 215	Staff

Economic Principles and Problems										Mr. Martinsek			
		206-4	205			M	W	F	Browne				
4	1				Tu	Th		M 203B	Staff	Mr. Martinsek			
					Tu	Th		M 214	Staff				
					Tu	Th		M 215	Staff				
					Tu	Th		M 210	Staff				
	5				Tu	Th		M 207	Staff	Mr. Martinsek			
					MTu	WTh	F	M 214	Staff				
	6				M	W	Th	M 210	Staff	Mr. Martinsek			
					9:00-9:50	MTu	W	F	M 102		Mr. Allen		
					12:00-12:50	MTu	W	Th	M 214		Staff		
					1:00-1:50	Tu	W	Th	F		M 102	Staff	
1					MTu	Th	F	M 102	Staff	Mr. Martinsek			
					M	W	Th	S	T 40 R 115		Mr. Morrison		
					MTu	Th	S	M 210	Mr. Wells				
					12:00-12:50	MTu	W	F	M 210		Staff		
	2					MTu	W	F	M 215	Staff	Mr. Martinsek		
						5:45-7:25 P.M.	Tu	Th	S	M 210		Staff	
	3					MTu	W		M 214	Staff	Mr. Martinsek		
						8:00-8:50	MTu	W		M 214		Staff	
						11:00-11:50	M	W	FS	M 210		Staff	
						1:00-1:50	MTu	Th	F	M 214		Staff	
2					MTu	W	Th	M 210	Staff	Mr. Martinsek			
					4:00-4:50	MTu	W	Th	M 210		Staff		
					12:00-12:50	Tu	W	F	M 304		Staff		
					9:00-10:50	Tu	W	F	T 32 R 104		Staff		
	3					Tu	W	F	S	M 304	Mr. Martinsek		
						12:00-12:50	Tu	W	F	M 304		Staff	
	4					M	Th	T 32 R 104	M 304	Staff	Mr. Martinsek		
						12:00-12:50	Tu	W	F	M 304		Staff	
						10:00-11:50	Tu	W	F	T 32 R 104		Staff	
						3:00-3:50	M	W	F	M 304		Staff	
1					10:00-10:50	M	W	F	T 32 R 104	Mr. Martinsek			
					3:00-3:50	M	W	F	M 304		Staff		
					8:00-9:50	M	W	F	T 32 R 104		Staff		
					3:00-3:50	M	W	F	S		M 304	Staff	
	2					3:00-3:50	M	W	F	T 32 R 104	Mr. Martinsek		
						3:00-3:50	Tu	Th	F	M 304		Staff	
	3					M	W	F	M 304	Staff	Mr. Martinsek		
						3:00-3:50	M	W	F	T 32 R 104		Staff	
						10:00-11:50	M	W	F	S		M 304	Staff
						12:00-12:50	M	W	F	M 304		Staff	
1					10:00-11:50	M	W	F	T 32 R 104	Mr. Martinsek			
					12:00-12:50	M	W	F	M 304		Staff		
					10:00-10:50	M	W	F	T 32 R 104		Staff		
					12:00-12:50	M	W	F	M 304		Staff		
	2					12:00-12:50	M	W	F	M 304	Mr. Martinsek		
						12:00-12:50	Tu	Th	F	T 32 R 104		Staff	
	3					12:00-12:50	M	W	F	M 304	Mr. Martinsek		
						12:00-12:50	M	W	F	T 32 R 104		Staff	
						12:00-12:50	M	W	F	M 304		Staff	
						12:00-12:50	Tu	Th	F	T 32 R 104		Staff	

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
ECONOMICS (ECON) (Continued)									
Economic & Business Statistics	307-4					3	12:00-12:50 8:00-9:50	M 304 T 32 R 104	Staff
						4	12:00-12:50 10:00-11:50	S M 304 T 32 R 104	Staff
Labor Problems	310-4	206	1			1	2:00-2:50 8:00-8:50	MTuW F MTu ThF	Mr. Edelman
Money and Banking I	315-4	206	1			1	11:00-11:50 8:00-8:50	M 102 MTu ThF	Mr. Edelman
				1		2	12:00-12:50 1:00-1:50	M 102 MTu FS MTuWTh	Mr. Cochran
Economic History of the United States	317-4	205	1			1	8:00-8:50 8:00-8:50	M 210 MTu ThF M 102A	Mr. Cochran
				1		1	2:00-2:50 3:00-3:50	M 102 MTu ThF M 102	Mr. Layer
International Economics I	328-4	206	1			1	4:00-4:50 4:00-4:50	M 102 MTu ThF M 102	Mr. Wells
Public Finance I	330-4	206	1			1	4:00-4:50 3:00-3:50	M 214 TuWThF M 102	Mr. Morrison
Public Utility Economics	340-3	206		1		1	3:00-3:50	M 203	Mr. Martinsek
Economics of Consumption	355-3	205		1		1	4:00-4:50	M 206	Staff
Collective Bargaining and Dispute Settlement	411-4	310	1			1	9:00-10:50	M 215	Mr. Edelman
Money and Banking II	416-4	315				1	1:00-1:50	M 203B	Mr. Wiegand
Economic History of Europe	418-4	206	1			1	2:00-2:50	A 207	Mr. Weigand
Latin American Economic Development	419-4	315				1	11:00-11:50	M 309	Staff
International Economics II	429-4	328	1			1	1:00-1:50	M 203	Mr. Allen
Fiscal Policy of the United States	432-3	206				1	12:00-12:50	M 203B	Mr. Cochran
Government and Labor ¹	436-3	205 or Govt. 101, 231, or 300				1	9:00-9:50	M 106	Mr. Edelman
Intermediate Theory	440-3	206	1			1	10:00-10:50	M 214	Mr. Allen
History of Economic Thought	450-3	206	1			1	10:00-10:50	M 203B	Mr. Allen
Economic Theories	451-3	450				1	2:00-2:50	M 302	Mr. Wiegand
Russian Economy	460-4	205	1			1	3:00-3:50	M 203B	Mr. Wiegand
Mathematical Economics	465-4	440 and Consent of Dept.				1	4:00-4:50	M 203B	Mr. Wells
Business Cycles	470-3	315 or 440				1	5:45-7:25 p.m. 11:00-11:50	M 307	Mr. Martinsek
						1	9:00-9:50	M 203	Mr. Cochran
								M 104	Mr. Martinsek

Land Resources Economic ²	471-4	1	3:00-3:50 3:00-4:50 11:00-11:50	M	W Th Tu	Ag 168 Ag 168 A 102	Mr. Beazley Mr. Beazley Mr. Hickman
Comparative Economic Systems	481-3	1					
Economic Readings	501-1 to 5	1	To be arranged	1		Office	Mr. Layer
Readings in Resource Economics ²	502-1 to 6	1	To be arranged	1		Forestry Office	Mr. Beazley
Labor Economics	512-4	1	4:00-4:50	1	MTuW	M 102A	Mr. Edelman
Economic Growth	519-4	1	11:00-11:50	1	MTu ThF	M 102	Mr. Layer
Public Finance Theory and Practice	533-4	330	5:45-7:25 P.M.		M W	M 106	Mr. Morrison
National Income Theory	541-4	206	9:00-9:50	1	M W S	HEc 120	Mr. Cochran
Price Theory	542-4	440	9:00-9:50	1	Th	HEc 122	Mr. Cochran
Comparative Economic Development	561-4	205	8:00-4:50	1	MTuW	M 202	Mr. Allen
in Asia			8:00-8:50	1	M WThF	M 203B	Mr. Wells
Economic Regulation	575-4	330 and Mgt. 473	8:00-8:50	1	MTu FS	HEc 122	Mr. Martinsek
Economics of Welfare	581-4	440 or equivalent	8:00-9:50	1	Tu Th	A 207	Mr. Hickman
Economic Behavior	582-4	440, equivalent or consent of instructor	9:00-10:50	1	W F	M 106	Mr. Hickman
Thesis	599-3 to 9	Consent of Dept.	To be arranged	1		Office	Mr. Layer

¹ Cross-listed with Government.

² Cross-listed with Agricultural Industries and Forestry.

EDUCATIONAL ADMINISTRATION & SUPERVISION (ED AD)

Introduction to Teaching	100-3	1	6:00-7:25 P.M.	1	M	T 40 R 101	Staff
		2	8:00-8:50	2	W	T 41 R 102	Staff
		3	9:00-9:50	3	Tu Th S	T 41 R 104	Mr. Foster
		4	11:00-11:50	4	M W F	T 42 R 118	Mr. Foster
		5	12:00-12:50	5	M W F	T 41 R 101	Staff
		6	1:00-1:50	6	M W F	T 41 R 101	Staff
		7	1:00-1:50	7	M W F	T 41 R 101	Mr. Wohlwend
		8	2:00-2:50	8	M W F	T 41 R 101	Staff
		9	3:00-3:50	9	M W F	T 41 R 101	Mr. Largent
			3:00-3:50		M W F	T 41 R 101	Staff
			4:00-4:50		M W F	T 41 R 101	Staff
American Educational Systems	331-3	1	8:00-8:50	1	M W F	T 42 R 118	Mr. Brammell

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor	
EDUCATIONAL ADMINISTRATION & SUPERVISION (ED AD)										
American Educational Systems	331-3		F	W	S					
		2	2	2	9:00-9:50	M	W	F	T 42 R 118	Mr. Brammell
		3			2:00-2:50	M	W	F	T 42 R 118	Mr. Brammell
		4	3	3	2:00-2:50	M	W	F	T 42 R 118	Staff
Philosophy of Education ¹	355-4	4	4	4	4:00-4:50	M	W	F	T 42 R 118	Mr. Foster
		1	1	1	8:00-8:50	MTuWTh			HEc 208	Mr. Moore
		2	2	2	9:00-9:50	MTuWTh			T 40 R 101	Staff
		3	3	3	11:00-11:50	MTuWTh			T 40 R 101	Staff
		4	4	4	3:00-3:50	MTuWTh			T 41 R 103	Staff
		5	5	5	8:00-10:30		S		T 40 R 101	Staff
							Plus 4 extra meetings			
Legal Basis of American Education	420-4		1			6:30-9:00 P.M.	Tu	T 41 R 102	Mr. Beem	
						Plus 4 extra meetings				
School Administration	424-4	1		1		6:30-9:00 P.M.	W	T 41 R 101	Mr. Lawson	
					Plus 4 extra meetings					
		1	1		6:30-9:00 P.M.	W		T 42 R 118	Mr. Brammell	
						Plus 4 extra meetings				
History of Education in the U.S. Public Opinion, Propaganda, and Education	431-3			1		6:30-9:00 P.M.	M	T 42 R 118	Mr. Brammell	
	432-4			1		6:30-9:00 P.M.	W	T 41 R 102	Mr. Randolph	
						Plus 4 extra meetings				
	434-1 to 3 (March 19-24)					9:00-12:00	MTuWThF	LG	Staff	
School Supervision	456-4				1:00-4:00	MTuWThF	LG		Staff	
		1	1	1	9:00-11:30		S	T 41 R 104	Mr. Bracewell	
						Plus 4 extra meetings				
Curriculum	460-4			1		6:30-9:00 P.M.	M	T 40 R 114	Mr. Bryant	
		1	1	1	Plus 4 extra meetings					
					4:00-6:30	Th		T 40 R 101	Mr. Hall	
						Plus 4 extra meetings				
Research Methods	500-4	1	1		7:00-9:30 P.M.	Th		T 42 R 118	Mr. Bach	
					8:00-10:30		S	T 42 R 118	Mr. Bach	
Seminar in Educational Administration	501-4			1	6:30-9:00 P.M.	Th		T 42 R 118	Mr. Bach	
		1			4:00-6:30	Tu		Lib Conf R	Mr. Beem	

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
ELEMENTARY EDUCATION (ED EL)								
Reading and Study Techniques	000-0		1	1	11:00-11:50	MTuWTh	T 41 R 102	Mr. Ragsdale
Understanding the Elementary Child	203-3 ¹	Psync. 201	1	1	2:00-2:50	M W	T 40 R 115	Mr. Lee
			2	2	3:00-3:50	M W	T 40 R 115	Mr. Lee
Kindergarten-Primary Social Studies Methods	309-4	316		1	2:00-2:50	MTuWTh	T 40 R 114	Miss Baker
Children's Literature	313-4	Guid. 305	1	1	11:00-11:50	MTuWTh	T 40 R 115	Miss Baker
				2	2:00-2:50	MTuWTh	T 40 R 114	Miss Baker
Elementary School Methods	314-4	Guid. 305	1	1	9:00-9:50	MTuWTh	T 41 R 101	Mr. Randolph
			2	2	1:00-1:50	MTuWTh	T 41 R 103	Mr. Bradfield
			3		11:00-11:50	TuWThF	T 41 R 103	Mr. Bradfield
Kindergarten-Primary Methods and Curriculum	316-4	Guid. 305		3	11:00-11:50	MTuWTh	T 41 R 101	Mr. Randolph
Reading in the Elementary School	337-4	314	1	1	9:00-9:50	MTuWTh	T 40 R 115	Miss Baker
			2	2	2:00-2:50	TuWThF	T 41 R 102	Mr. Ragsdale
				2			T 41 R 103	Mr. Brod
Improvement of Instruction in Arithmetic	415-4	Math. 210		1	8:30-11:00 Plus 4 extra sessions	S	T 40 R 114	Mr. Lerch
Problems in Reading	437-4	337		1	8:00-8:50 6:30-9:00 P.M.	MTuWTh M	T 40 R 115	Mr. Lerch
Elementary School Science Methods	442-4	314		1	Plus 4 extra sessions 6:30-9:00 P.M.	W	T 41 R 102	Mr. Ragsdale
Elementary School Curriculum	461-4	Guid. 305		1	Plus 4 extra sessions 6:30-9:00 P.M. Plus 4 extra sessions	Tu	USch 304	Mr. Brown
			1				T 40 R 115	Mr. Lee
Improvement of Reading Instruction	505-4 ²		1		6:30-9:00 P.M.	M	T 41 R 103	Mr. Karlin
Readings in Reading ²	507-2 to 4		1	1	To be arranged			Mr. Karlin
Practicum in Reading ²	509-4 to 8		1	1	6:30-9:00 P.M.	Tu	T 41 R 103	Mr. Karlin
Seminar-Problems in Reading ²	510-4			1	6:30-9:00 P.M.	W	T 41 R 103	Mr. Karlin
Organization and Administration of Reading Programs ²	514-4	461 or Ed. S. 460		1	6:30-9:00 P.M.	M	T 41 R 103	Mr. Karlin
Diagnosis and Correction of Reading Disabilities I ²	521-3	337 or 505, Guid. 305	1		9:00-12:00	S	USch 118	Mr. Karlin
Diagnosis and Correction of Reading Disabilities II ²	522-3	521		1	9:00-12:00	S	USch 118	Mr. Karlin

Diagnosis and Correction of Reading Disabilities III ²	523-3	522	1	9:00-12:00	S	USch 118	Mr. Karlin
Teaching and Curriculum Problems in Elementary Science	541-4		1	6:30-9:00 P.M.	W	USch 304	Mr. Brown
Language Arts in Elementary School	542-4		1	6:30-9:00 P.M.	Tu	T 41 R 102	Mr. Ragsdale
Teaching Social Studies in Elementary School	543-4		1	6:30-9:00 P.M.	Th	T 40 R 101	Mrs. Shaffel
Elementary Principalship	557-4	1	1	6:30-9:00 P.M.	Th	T 41 R 103	Mr. Bradfield
Kindergarten-Primary Education	560-4	1	1	6:30-9:00 P.M.	Tu	T 40 R 114	Miss Baker
Individual Research (Curriculum)	575A-4	1	1	To be arranged			Staff
Individual Research (Supervision)	575B-4	1	1	To be arranged			Staff
Individual Research (Language Arts)	575C-4	1	1	To be arranged			Staff
Individual Research (Science)	575D-4	1	1	To be arranged			Staff
Individual Research (Reading)	575E-4	1	1	To be arranged			Staff
Individual Research (Social Studies)	575F-4	1	1	To be arranged			Staff
Individual Research (Problems in Elementary Education)	575G-4	1	1	To be arranged			Staff
Individual Research (Arithmetic)	575H-4	1	1	To be arranged			Staff
Individual Research (Problems in Kindergarten-Primary)	575J-4	1	1	To be arranged			Staff
Individual Research (Elementary Administration)	575K-4	1	1	To be arranged			Staff
Independent Investigation	596-5 to 9	1	1	To be arranged			Staff
Thesis	597-1 to 3	1	1	To be arranged			Staff
Thesis	598-1 to 3	1	1	To be arranged			Staff
Thesis	599-1 to 3	1	1	To be arranged			Staff
Dissertation	600-2 to 36	1	1	To be arranged			Staff

¹ Plus two hours in succession from 9:00 to 3:00 on one day, Monday-Friday, for school participation.

² Cross-listed with Secondary Education.

PRACTICE TEACHING

Kind.-Pri. Stud. Teaching	350b-4 to 16	1	1	To be arranged			Staff
Elem. Student Teaching General	351b-4 to 16	1	1	To be arranged			Staff
Elem. Student Teaching Art	351b-4 to 16	2	2	To be arranged			Staff
Elem. Student Teaching EMH	351b-4 to 16	3	3	To be arranged			Staff
Elem. Student Teaching Music	351b-4 to 16	4	4	To be arranged			Staff
Elem. Student Teaching Phys. Educ.	351b-4 to 16	5	5	To be arranged			Staff
Elem. Student Teaching Phys. Hand.	351b-4 to 16	6	6	To be arranged			Staff
Elem. Student Teaching Spch. Corr	351b-4 to 16	7	7	To be arranged			Staff

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
			F	W	S				
ENGLISH (ENG) Composition	101-3		1A	1C ¹		8:00-8:50	M W F	M 305	Staff
					1B	8:00-8:50	MTuWThF	Bailey	Staff
			T2C			2:00-2:50	TuWThF	M 303	Staff
				2C		8:00-8:50	MTuWThF	M 306	Staff
					2B	9:00-9:50	MTuWThF	HEc 106	Staff
						5:45-7:25 P.M.	M W	M 302	Staff
			3B			8:00-8:50	Tu FS	M 302	Staff
						8:00-8:50	W	M 306a	Staff
				3C		11:00-11:50	MTuWThF	M 308	Staff
			4C			8:00-8:50	TuWThFS	M 308	Staff
				4C		12:00-12:50	MTuWThF	M 302	Staff
			5B			8:00-8:50	MTu ThF	M 306a	Staff
				5C		1:00-1:50	MTuWThF	M 306a	Staff
			6B			8:00-8:50	Tu Th S	M 301	Staff
						8:00-8:50	W	M 303	Staff
				6C		2:00-2:50	MTuWThF	HEc 106	Staff
			7B ¹			8:00-8:50	TuW FS	Bailey	Staff
				7C		3:00-3:50	MTuWThF	M 306a	Staff
			8B			8:00-8:50	Tu Th S	M 305a	Staff
						8:00-8:50	F	M 203	Staff
			9B			4:00-4:50	MTuWThF	M 306a	Staff
						8:00-8:50	MTu ThF	M 303	Staff
				8C		6:00-7:25 P.M.	M WTh	M 308	Staff
			10C			8:00-8:50	TuWThFS	M 104	Staff
				10C		7:35-9:15 P.M.	M WTh	M 306a	Staff
			11A			8:00-8:50	M W F	HEc 202	Staff
				11C		7:35-9:15 P.M.	M WTh	HEc 202	Staff
			T12C			8:00-8:50	MTuWThF	HEc 106	Staff
			13A			9:00-9:50	M WTh	M 305a	Staff
			14C			9:00-9:50	MTuWThF	M 306	Staff
			15B			9:00-9:50	TuW	M 308	Staff
						9:00-9:50	Th S	M 302	Staff
			16B			9:00-9:50	Tu FS	M 305a	Staff
						9:00-9:50	W	M 305	Staff
			T17C			9:00-9:50	MTuWThF	M 306a	Staff
			18B			9:00-9:50	MTu ThF	M 305	Staff
			19B			9:00-9:50	TuWTh S	HEc 202	Staff
			T20C			9:00-9:50	TuWThFS	HEc 106	Staff

T21B	9:00-9:50	W	M 303	Staff
	9:00-9:50	ThFS	M 308	Staff
22B	9:00-9:50	TuW FS	HEc 302	Staff
23B	9:00-9:50	MTu ThF	M 303	Staff
24C ¹	9:00-9:50	MTuWThF	Bailey	Staff
25A	10:00-10:50	W FS	M 306a	Staff
26A	10:00-10:50	W FS	HEc 106	Staff
27B	11:00-11:50	Tu Th S	M 302	Staff
	11:00-11:50	W	M 305a	Staff
28C	11:00-11:50	TuWThFS	M 106	Staff
29A	11:00-11:50	TuW F	HEc 202	Staff
30C	11:00-11:50	TuWThFS	HEc 106	Staff
31B ¹	11:00-11:50	MTu ThF	Bailey	Staff
32B	11:00-11:50	MTuW F	M 306	Staff
33C	11:00-11:50	TuWThFS	M 308	Staff
34B	11:00-11:50	M WThF	HEc 302	Staff
35B	11:00-11:50	Tu Th S	M 301	Staff
	11:00-11:50	F	M 305	Staff
36B	11:00-11:50	MTu ThF	M 303	Staff
37A	11:00-11:50	M W F	T 40 R 114	Staff
38C	11:00-11:50	MTuWThF	M 202	Staff
39A	12:00-12:50	TuW F	M 302	Staff
40B	12:00-12:50	M Th	M 306	Staff
	12:00-12:50	Tu F	M 206	Staff
41C	12:00-12:50	MTuWThF	M 308	Staff
42C	12:00-12:50	MTuWThF	M 306a	Staff
43B	12:00-12:50	MTu ThF	HEc 202	Staff
44B	12:00-12:50	TuWThF	M 305a	Staff
45C	12:00-12:50	MTuWThF	HEc 106	Staff
46B	12:00-12:50	MTu ThF	HEc 302	Staff
47B	12:00-12:50	MTuW F	M 303	Staff
48B	12:00-12:50	M WThF	M 108	Staff
49B	12:00-12:50	MTu ThF	M 202	Staff
50C	12:00-12:50	MTuWThF	M 112	Staff
51B	1:00-1:50	TuWThF	M 303	Staff
52A	1:00-1:50	Tu Th	M 305	Staff
	1:00-1:50	F	M 306	Staff
53B	1:00-1:50	MTu Th	M 308	Staff
	1:00-1:50	W	M 302	Staff
54B	1:00-1:50	Tu F	M 306a	Staff
	1:00-1:50	WTh	M 305a	Staff
55C	1:00-1:50	MTuWThF	HEc 106	Staff

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No. F W S	Time	Days	Bldg. No. Room No.	Instructor
ENGLISH (ENG) (Continued) Composition	101-3						
			T56B	1:00-1:50	MTu	M 305a	Staff
				1:00-1:50	W F	M 308	Staff
			57A	1:00-1:50	Tu Th	M 301	Staff
				1:00-1:50	F	M 305a	Staff
			58B	1:00-1:50	TuWThF	M 313	Staff
			T59C	1:00-1:50	MTuWThF	HEC 202	Staff
			60B	1:00-1:50	TuWThF	M 112	Staff
			61C	1:00-1:50	MTuWThF	M 312	Staff
			62C	1:00-1:50	MTuWThF	HEC 122	Staff
			63B	2:00-2:50	TuWThF	H Ec 202	Staff
			64A	2:00-2:50	Tu Th	M 301	Staff
				2:00-2:50	F	M 302	Staff
			65B	2:00-2:50	MTuW F	M 305a	Staff
			T66B	2:00-2:50	TuWThF	M 307	Staff
			T67C	2:00-2:50	MTuWThF	M 308	Staff
			T68C	2:00-2:50	MTuWThF	M 313	Staff
			69B	2:00-2:50	TuWThF	M 306a	Staff
			70B	2:00-2:50	TuWThF	M 306	Staff
			71B ¹	2:00-2:50	TuWThF	Bailey	Staff
			72C	2:00-2:50	TuWThF	M 303	Staff
				2:00-2:50	M	M 306	Staff
			73B	2:00-2:50	MTu ThF	HEC 122	Staff
			74C	2:00-2:50	MTuWThF	HEC 106	Staff
			75A	3:00-3:50	M W F	M 305a	Staff
			76B	3:00-3:50	MTu ThF	M 303	Staff
			77B	3:00-3:50	TuWThF	M 306	Staff
			T78B	3:00-3:50	MTuW F	M 306a	Staff
			79B	3:00-3:50	M WThF	M 308	Staff
			80B	3:00-3:50	MTuW F	HEC 302	Staff
			T81C	3:00-3:50	MTuWThF	HEC 202	Staff
			T82C	3:00-3:50	MTuWThF	M 313	Staff
			83B	3:00-3:50	MTu ThF	HEC 122	Staff
			84B ¹	3:00-3:50	MTu ThF	Bailey	Staff
			85C	3:00-3:50	MTuWThF	HEC 106	Staff
			T86C	4:00-4:50	MTuWThF	HEC 106	Staff
			87A	4:00-4:50	M W F	M 202	Staff
			T88B	4:00-4:50	MTu ThF	M 303	Staff

89A	4:00-4:50	Tu	Th	M 301	Staff
T90C	4:00-4:50	MTuWThF	F	M 305	Staff
91B	4:00-4:50	MTu	ThF	M 306	Staff
92B	4:00-4:50	TuWThF		HEc 202	Staff
93B *	4:00-4:50	MTu	ThF	M 306a	Staff
94C	4:00-4:50	MTuWThF		Bailey	Staff
95C	4:00-4:50	MTuWThF		M 305a	Staff
96B	4:00-4:50	MTuWTh		M 308	Staff
97B	4:00-4:50	MTu	ThF	M 313	Staff
T98C	6:00-7:25 P.M.	M	WTh	HEc 122	Staff
99A	6:00-7:25 P.M.	Tu	Th	HEc 106	Staff
T100B	5:45-7:25 P.M.	M	W	M 305	Staff
T101C	6:00-7:25 P.M.	M	WTh	M 305a	Staff
102B	5:45-7:25 P.M.	Tu	Th	M 108	Staff
103B	5:45-7:25 P.M.	M	W	M 305a	Staff
104B	5:45-7:25 P.M.	Tu	Th	M 306	Staff
105B	5:45-7:25 P.M.	M	W	M 306	Staff
106C	6:00-7:25 P.M.	M	WTh	M 306a	Staff
107B	5:45-7:25 P.M.	Tu	Th	M 303	Staff
108C	6:00-7:25 P.M.	M	WTh	M 306a	Staff
109A	7:35-9:00 P.M.	M	W	HEc 202	Staff
110C	7:35-9:00 P.M.	M	WTh	HEc 106	Staff
T111C	7:35-9:00 P.M.	M	WTh	M 108	Staff
112B	7:35-9:15 P.M.	Tu	Th	M 305	Staff
T113C	7:35-9:00 P.M.	M	WTh	M 303	Staff
114B	7:35-9:15 P.M.	M	W	M 306	Staff
115B	7:35-9:15 P.M.	Tu	Th	M 306	Staff
116B	7:35-9:15 P.M.	M	W	M 306a	Staff
117B	7:35-9:15 P.M.	Tu	Th	M 306a	Staff
T118B	7:35-9:15 P.M.	M	W	M 308	Staff
102-3	8:00-8:50	Tu	ThFS	HEc 106	Staff
101	8:00-8:50	TuWThFS		M 305	Staff
102-3	8:00-8:50	Tu	F	M 305	Staff
102-3	8:00-8:50	Tu	W	M 302	Staff
102-3	9:00-9:50	MTuWThF		M 305a	Staff
102-3	8:00-8:50	MTu	ThF	HEc 202	Staff
102-3	11:00-11:50	MTuWThF		M 108	Staff
102-3	8:00-8:50	Tu	ThFS	M 104	Staff
102-3	12:00-12:50	MTuWThF		HEc 106	Staff
102-3	8:00-8:50	M	WThF	M 305a	Staff
102-3	1:00-1:50	MTuWThF		HEc 106	Staff

Composition

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
ENGLISH (ENG) (Continued) Composition	102-3		F	W	S				
			6B		6C	8:00-8:50	MTuWTh	M 202	Staff
			7C			3:00-3:50	MTuWThF	M 305	Staff
					7C	8:00-8:50	TuWThFS	M 306	Staff
			8C			4:00-4:50	MTuWThF	M 308	Staff
					8C	8:00-8:50	TuWThFS	M 308	Staff
						7:35-9:00 P.M.	M WTh	HEc 106	Staff
			T9B			8:00-8:50	TuW F	M 303	Staff
						8:00-8:50	TuW F S	M 305a	Staff
			T10B			8:00-8:50	MTu ThF	HEc 306	Staff
			T11B			9:00-9:50	MTu ThF	HEc 202	Staff
			12B			9:00-9:50	TuWThF	M 305	Staff
			13B			9:00-9:50	Tu ThFS	M 106	Staff
			14B			9:00-9:50	TuWTh S	M 305a	Staff
			T15B			9:00-9:50	M F	M 305a	Staff
						9:00-9:50	Tu Th	M 306	Staff
			16B ¹			9:00-9:50	MTu ThF	Bailey	Staff
			17A			9:00-9:50	M W F	M 306	Staff
			18C			9:00-9:50	TuWThFS	M 306a	Staff
			T19C			9:00-9:50	TuWThFS	M 308	Staff
			20C			9:00-9:50	MTuWThF	M 313	Staff
			21A			10:00-10:50	W FS	M 302	Staff
			T22B			11:00-11:50	Tu ThFS	M 303	Staff
			23A			11:00-11:50	M W F	M 302	Staff
			T24A			11:00-11:50	Tu Th S	M 313	Staff
			25C			11:00-11:50	MTuWThF	M 305a	Staff
			26C			11:00-11:50	TuWThFS	M 306	Staff
			27B ¹			11:00-11:50	MTu ThF	Bailey	Staff
			T28B			11:00-11:50	MTuW F	HEc 106	Staff
			29B			11:00-11:50	TuW FS	M 306a	Staff
			30B			11:00-11:50	M Th	M 306a	Staff
						11:00-11:50	Tu F	M 305	Staff
			31C			11:00-11:50	MTuWThF	HEc 202	Staff
			32A			12:00-12:50	TuW F	M 301	Staff
			33B			12:00-12:50	TuWThF	M 305a	Staff
			T34C			12:00-12:50	MTuWThF	M 308	Staff
			35B			12:00-12:50	M Th	M 301	Staff
						12:00-12:50	Tu F	M 310	Staff
			T36B			12:00-12:50	TuWThF	HEc 202	Staff

37B ¹	12:00-12:50	MTu ThF	Bailey	Staff
T38B	12:00-12:50	MTuWTh	M 305	Staff
39B	12:00-12:50	MTuWTh	M 313	Staff
40C	12:00-12:50	MTuWThF	HEc 106	Staff
41C	1:00-1:50	MTuWThF	M 305a	Staff
42C	1:00-1:50	MTuWThF	M 308	Staff
43B	1:00-1:50	MTu ThF	HEc 202	Staff
T44B	1:00-1:50	MTuW F	HEc 306	Staff
T45B	1:00-1:50	M WThF	HEc 303	Staff
46A	1:00-1:50	M W F	M 303	Staff
47B	1:00-1:50	MTuWTh	HEc 302	Staff
48B	1:00-1:50	TuWThF	M 112	Staff
49B	1:00-1:50	MTu ThF	M 313	Staff
50C	1:00-1:50	MTuWThF	HEc 106	Staff
T51C	2:00-2:50	MTuWThF	M 305a	Staff
52A	2:00-2:50	M WTh	M 112	Staff
53B	2:00-2:50	Tu Th	M 302	Staff
	2:00-2:50	W F	M 301	Staff
T54B	2:00-2:50	MTu ThF	M 303	Staff
T55B	2:00-2:50	MTu ThF	M 313	Staff
56C	2:00-2:50	MTuWThF	M 306	Staff
57B	2:00-2:50	M W	HEc 120	Staff
	2:00-2:50	Tu Th	M 306a	Staff
58B	2:00-2:50	MTu ThF	M 308	Staff
59B	2:00-2:50	MTuWTh	M 104	Staff
60C	2:00-2:50	MTuWThF	HEc 202	Staff
T61A	3:00-3:50	M	M 302	Staff
	3:00-3:50	Tu Th	M 305a	Staff
62C	3:00-3:50	MTuWThF	M 308	Staff
63A	3:00-3:50	M Th	M 306	Staff
	3:00-3:50	W	M 302	Staff
64B	3:00-3:50	Tu ThF	M 302	Staff
	3:00-3:50	W	M 305a	Staff
65C	3:00-3:50	MTuWThF	HEc 106	Staff
T66B	3:00-3:50	MTuW F	M 303	Staff
67B ¹	3:00-3:50	TuWThF	Bailey	Staff
T68B	3:00-3:50	MTu ThF	M 305	Staff
69B	3:00-3:50	M WThF	HEc 202	Staff
70B	3:00-3:50	M WThF	M 309	Staff
71A	4:00-4:50	Tu F	M 301	Staff
	4:00-4:50	Th	M 303	Staff
72C	4:00-4:50	MTuWThF	M 308	Staff

Title	Course No. & Hours	Prerequisite	Or. & Sec. No. F W S	Time	Days	Bldg. No. Room No.	Instructor
ENGLISH (ENG) (Continued)							
Composition	102-3						
			T73B	4:00-4:50	M	M 302	Staff
			74B ¹	4:00-4:50	Tu ThF	M 305a	Staff
			T75B	4:00-4:50	TuWThF	Bailey	Staff
				4:00-4:50	M W	M 305a	Staff
				4:00-4:50	Tu Th	M 305	Staff
			76B	4:00-4:50	MTuWTh	HEc 106	Staff
			77B	4:00-4:50	MTu ThF	HEc 202	Staff
			78B	4:00-4:50	M WThF	M 313	Staff
			T79C	4:00-4:50	MTuWThF	M 306	Staff
			80B	4:00-4:50	MTuWTh	M 303	Staff
			T81A	6:00-7:25 P.M.	Tu Th	HEc 106	Staff
			82A	6:00-7:25 P.M.	M W	M 302	Staff
			83B	5:45-7:25 P.M.	M W	HEc 106	Staff
			84C	6:00-7:25 P.M.	M WTh	M 306a	Staff
			T85B	5:45-7:25 P.M.	M W	M 305	Staff
			T86B	5:45-7:25 P.M.	M W	M 306	Staff
			87B	5:45-7:25 P.M.	M W	M 305a	Staff
			88B	5:45-7:25 P.M.	Tu Th	M 306	Staff
			89C	6:00-7:25 P.M.	M WTh	M 108	Staff
			90B	7:35-9:15 P.M.	M W	M 302	Staff
			91A	7:35-9:00 P.M.	Tu Th	M 302	Staff
			T92A	7:35-9:00 P.M.	M W	M 305	Staff
			T93C	7:35-9:00 P.M.	M WTh	M 308	Staff
			94C	7:35-9:00 P.M.	M WTh	HEc 106	Staff
			95C	7:35-9:00 P.M.	M WTh	M 303	Staff
			96B	7:35-9:15 P.M.	Tu Th	M 305	Staff
			97B	7:35-9:15 P.M.	M W	M 305a	Staff
			98B	7:35-9:15 P.M.	Tu Th	M 305a	Staff
			T99B	7:35-9:15 P.M.	M W	M 306	Staff
			T100B	7:35-9:15 P.M.	Tu Th	M 307	Staff
				8:00-8:50	Tu Th S	M 302	Staff
				8:00-8:50	TuWThFS	M 308	Staff
			T3B	8:00-8:50	MTu ThF	M 306	Staff
			T4B	8:00-8:50	W S	M 306	Staff
				8:00-8:50	ThF	M 306a	Staff
			5B	8:00-8:50	TuWThF	HEc 106	Staff
			6C	8:00-8:50	MTuWThF	M 305a	Staff
Composition	103-3	102					

7B	8:00-8:50	MTuW F	M 313	Staff
8B	8:00-8:50	TuWTh S	HEc 202	Staff
9A	8:00-8:50	M W F	M 106	Staff
10B	8:00-8:50	MTu ThF	M 202	Staff
11B	9:00-9:50	MTuWTh	HEc 202	Staff
12C	9:00-9:50	TuWThFS	M 308	Staff
13B	9:00-9:50	MTu ThF	HEc 106	Staff
14A	9:00-9:50	Tu Th S	M 302	Staff
15B	9:00-9:50	TuW	M 306a	Staff
	9:00-9:50	FS	M 306	Staff
16B	9:00-9:50	WThFS	M 303	Staff
17B	9:00-9:50	MTuWTh	M 306	Staff
18B	9:00-9:50	TuWTh S	M 305	Staff
19C ¹	9:00-9:50	MTuWThF	Bailey	Staff
20A	10:00-10:50	W FS	M 302	Staff
21A	10:00-10:50	W FS	HEc 106	Staff
22B	11:00-11:50	MTu ThF	HEc 106	Staff
23B	11:00-11:50	TuW FS	M 305	Staff
24C	11:00-11:50	MTuWThF	M 308	Staff
25C	11:00-11:50	MTuWThF	M 305a	Staff
26B	11:00-11:50	MTu ThF	HEc 202	Staff
T27B	11:00-11:50	TuW FS	M 306a	Staff
28A	11:00-11:50	M W F	M 306	Staff
29B	11:00-11:50	TuWTh S	M 303	Staff
30B ¹	11:00-11:50	MTu ThF	Bailey	Staff
T31A	12:00-12:50	M W F	M 303	Staff
T32B	12:00-12:50	M WThF	M 305a	Staff
T33B	12:00-12:50	TuWThF	M 308	Staff
T34B	12:00-12:50	MTu ThF	M 202	Staff
35B ¹	12:00-12:50	M WThF	Bailey	Staff
36B	12:00-12:50	TuWThF	M 112	Staff
37B	12:00-12:50	MTu ThF	HEc 202	Staff
38C	12:00-12:50	MTuWThF	M 306	Staff
T39C	12:00-12:50	MTuWThF	M 306a	Staff
T40A	1:00-1:50	M W F	M 305a	Staff
41B	1:00-1:50	M WThF	M 302	Staff
T42B	1:00-1:50	MTuWTh	HEc 202	Staff
T43B	1:00-1:50	MTuWTh	M 301	Staff
44B ¹	1:00-1:50	MTu ThF	Bailey	Staff
45B	1:00-1:50	MTuW F	M 112	Staff
46C	1:00-1:50	MTuWThF	M 306	Staff
47C	1:00-1:50	MTuWThF	M 306a	Staff

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
			F	W	S				
ENGLISH (ENG) (Continued)									
Composition	103-3								
			48B			1:00-1:50	MTu ThF	M 313	Staff
			49B			2:00-2:50	MTu ThF	M 310	Staff
			50C			2:00-2:50	MTuWThF	M 306a	Staff
			51B			2:00-2:50	M Th	M 301	Staff
						2:00-2:50	W F	M 306	Staff
			52C			2:00-2:50	MTuWThF	M 305	Staff
			T53B			2:00-2:50	TuWThF	HEc 106	Staff
			T54B			2:00-2:50	M W	M 305a	Staff
						2:00-2:50	Tu Th	M 306	Staff
			55A ¹			2:00-2:50	Tu ThF	Bailey	Staff
			56C			2:00-2:50	MTuWThF	M 308	Staff
			57B			2:00-2:50	M WThF	M 313	Staff
			58C			2:00-2:50	MTuWThF	HEc 202	Staff
			59C			3:00-3:50	MTuWThF	M 308	Staff
			60B			3:00-3:50	TuWThF	M 306a	Staff
			T61B			3:00-3:50	M WThF	M 313	Staff
			62A			3:00-3:50	Tu ThF	M 305a	Staff
			63C ¹			3:00-3:50	MTuWThF	Bailey	Staff
			T64B			3:00-3:50	MTu ThF	M 303	Staff
			65B			3:00-3:50	M WThF	HEc 106	Staff
			66B			3:00-3:50	TuWThF	HEc 202	Staff
			67B			3:00-3:50	MTu ThF	HEc 206	Staff
			68C			3:00-3:50	MTuWThF	M 306	Staff
			T69A			4:00-4:50	M W F	HEc 106	Staff
			T70B			4:00-4:50	MTu ThF	HEc 202	Staff
			71A			4:00-4:50	Tu ThF	M 305a	Staff
			72B			4:00-4:50	MTuW F	M 302	Staff
			73B ¹			4:00-4:50	MTuW F	Bailey	Staff
			74B			4:00-4:50	MTuW	M 306	Staff
						4:00-4:50	Th	M 305	Staff
			75B			4:00-4:50	MTu	M 306a	Staff
						4:00-4:50	ThF	M 306	Staff
			T76B			4:00-4:50	M	M 305a	Staff
						4:00-4:50	WThF	M 306a	Staff
			77C			4:00-4:50	MTuWThF	M 106	Staff
			78C			6:00-7:25 P.M.	M WTh	M 308	Staff
			79B			5:45-7:25 P.M.	Tu Th	M 302	Staff
			T80A			6:00-7:25 P.M.	Tu Th	M 305	Staff

English as a Foreign Language	105-3	Staff	81B	5:45-7:25 P.M.	Tu Th	M 305a
			T82B	5:45-7:25 P.M.	M W	M 306
			T83B	5:45-7:25 P.M.	Tu Th	M 306
			84B	5:45-7:25 P.M.	M W	M 306a
			85B	5:45-7:25 P.M.	Tu Th	M 306a
			86C	6:00-7:25 P.M.	M WTh	M 108
			87C	6:00-7:25 P.M.	M WTh	HEc 106
			88A	7:35-9:00 P.M.	Tu Th	M 302
			T89B	7:35-9:15 P.M.	M W	M 305a
			T90B	7:35-9:15 P.M.	Tu Th	M 305
			T91A	7:35-9:00 P.M.	Tu Th	M 305a
			92C	7:35-9:00 P.M.	M WTh	M 308
			93B	7:35-9:15 P.M.	Tu Th	M 306
			T94B	7:35-9:15 P.M.	M W	M 306a
			95C	7:35-9:00 P.M.	M WTh	M 307
			96C	7:35-9:00 P.M.	M WTh	HEc 202
			97B	7:35-9:15 P.M.	Tu Th	M 306a
			1	12:00-12:50	MTuWThF	HEc 120
			2	1:00-1:50	MTuWThF	HEc 102
			2	4:00-4:50	MTuWThF	HEc 120
Introduction to Poetry	205-3	Staff	1	8:00-8:50	M W F	M 301
			2	11:00-11:50	MTu Th	M 305a
			2	9:00-9:50	M W F	M 301
			3	9:00-9:50	M WTh	HEc 302
			3	1:00-1:50	M WTh	M 306
			3	11:00-11:50	M W F	M 301
			4	10:00-10:50	M W FS	HEc 302
			4	2:00-2:50	M W F	HEc 302
			4	12:00-12:50	M W F	HEc 302
			5	12:00-12:50	M WTh	M 301
			5	3:00-3:50	MTu Th	M 302
			5	1:00-1:50	M W F	M 302
			5	1:00-1:50	M WTh	M 308
			6	4:00-4:50	M W F	M 301
			6	2:00-2:50	M W F	M 302
			6	3:00-3:50	M W F	HEc 302
			7	6:00-7:25 P.M.	M W	M 301
			7	3:00-3:50	M Th	M 301
			7	3:00-3:50	M W	M 305
			7	4:00-4:50	M 301	M 301
			7	4:00-4:50	Tu Th	M 302

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor		
ENGLISH (ENG) (Continued)										
Introduction to Poetry	205-3		8	8	7:35-9:00 p.m. 4:00-4:50	Tu Th M WTh	M 305a M 301	Staff Staff		
			9	9	6:00-7:25 p.m. 7:35-9:00 p.m.	M W Tu Th	HEc 302 M 301	Staff Staff		
			1	1	7:35-9:00 p.m. 8:00-8:50	Tu Th Tu Th S	M 306 HEc 302	Staff Staff		
			2	2	8:00-8:50 9:00-9:50	M W F M W F	HEc 302 M 302	Staff Staff		
Introduction to Drama	206-3		2	2	9:00-9:50 11:00-11:50	Tu Th S Tu Th S	M 301 M 302	Staff Staff		
			3	3	11:00-11:50 11:00-11:50	M Th M W F	M 305 M 306	Staff Staff		
			4	4	12:00-12:50 2:00-2:50	MTu Th M W F	HEc 306 HEc 302	Staff Staff		
			5	5	2:00-2:50 4:00-4:50	M W F MTu Th	M 301 HEc 302	Staff Staff		
			6	6	4:00-4:50 6:00-7:25 p.m.	TuW F Tu Th	M 306 M 308	Staff Staff		
			7	7	6:00-7:25 p.m. 7:35-9:00 p.m.	TuW F M W	HEc 302 M 305	Staff Staff		
			8	8	7:35-9:00 p.m. 8:00-8:50	Tu Th M W F	HEc 302 M 305a	Staff Staff		
			9	9	8:00-8:50 9:00-9:50	M W F M W F	M 301 HEc 302	Staff Staff		
			10	10	9:00-9:50 11:00-11:50	M W F M W F	HEc 306 M 305	Staff Staff		
			11	11	11:00-11:50 12:00-12:50	M W F M W F	M 305 M 306	Staff Staff		
			12	12	12:00-12:50 12:00-12:50	M W F Tu Th	HEc 302 M 301	Staff Staff		
		Introduction to World Literature	209-3		1	1	7:35-9:00 p.m. 8:00-8:50	Tu Th M W F	HEc 302 M 305a	Staff Staff
					2	2	8:00-8:50 9:00-9:50	M W F M W F	HEc 302 M 301	Staff Staff
					3	3	9:00-9:50 11:00-11:50	M W F M W F	HEc 306 M 305	Staff Staff
					4	4	11:00-11:50 12:00-12:50	M W F Tu Th	M 306 M 302	Staff Staff

4	4	11:00-11:50	M	W	F	HEc 302	Staff
		10:00-10:50		W	FS	M 306	Staff
5	5	12:00-12:50	M	W	F	M 305	Staff
		12:00-12:50	M			HEc 202	Staff
		12:00-12:50		Tu	Th	HEc 302	Staff
6	6	2:00-2:50	M	W	Th	HEc 302	Staff
		1:00-1:50	M	W	F	HEc 302	Staff
		1:00-1:50	M	Th		M 306	Staff
		1:00-1:50		W		M 301	Staff
7	7	3:00-3:50	MTu	Th		HEc 118	Staff
		1:00-1:50	M	W	F	M 305	Staff
		2:00-2:50	Tu	W	F	HEc 302	Staff
8	8	4:00-4:50	M	W	Th	M 301	Staff
		2:00-2:50	M	W	F	HEc 118	Staff
		3:00-3:50	MTu	Th		HEc 302	Staff
9	9	7:35-9:00 P.M.	M	W		M 302	Staff
		4:00-4:50	M	W	Th	HEc 118	Staff
1	1	6:00-7:25 P.M.	Tu	Th		M 305a	Staff
		8:00-8:50	M	W	Th	M 302	Staff
1	1	9:00-9:50	Tu	Th	S	HEc 302	Staff
2	2	8:00-8:50	M	W	F	M 302	Staff
		9:00-9:50	Tu	W	F	M 302	Staff
2	2	10:00-10:50	W	FS		M 305	Staff
		11:00-11:50	M	W	F	M 302	Staff
3	3	10:00-10:50	W	FS		M 306	Staff
		12:00-12:50	M			M 306a	Staff
		12:00-12:50		Tu	Th	M 306	Staff
3	3	12:00-12:50	Tu	W	F	M 305	Staff
4	4	12:00-12:50	M	W	F	M 301	Staff
		1:00-1:50	Tu	Th		M 302	Staff
		1:00-1:50		F		M 305	Staff
4	4	2:00-2:50	MTu	Th		HEc 118	Staff
		1:00-1:50	M	W	Th	HEc 306	Staff
5	5	2:00-2:50	M	W	F	M 203B	Staff
		6:00-7:25 P.M.	M	W		HEc 201	Staff
6	6	3:00-3:50	M	W	Th	M 301	Staff
		3:00-3:50	Tu	W	F	M 301	Staff
7	7	7:35-9:00 P.M.	M	W		M 306	Staff
		3:00-3:50	Tu	Th	F	M 305	Staff
7	7	4:00-4:50	Tu	Th	F	M 104	Staff
		7:35-9:00 P.M.	Tu	Th		HEc 201	Staff
8	8	4:00-4:50	Tu	Th	F	HEc 120	Staff

211-3

Introduction to Fiction

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
ENGLISH (ENG) (Continued) Introduction to Fiction	211-3		F	W	S				
			8			6:00-7:25 P.M.	Tu Th	M 104	Staff
			9			6:00-7:25 P.M.	Tu Th	M 301	Staff
			10			7:35-9:00 P.M.	Tu Th	M 312	Staff
			1			7:35-9:00 P.M.	M W	M 301	Staff
	212-3	Introduction to Modern Literature	1			8:00-8:50	M W F	HEc 306	Staff
						8:00-8:50	M WTh	M 305	Staff
			1			8:00-8:50	Tu Th S	M 301	Staff
			2			9:00-9:50	Tu ThF	HEc 306	Staff
			2			9:00-9:50	TuW F	M 209	Staff
Principles of Grammar	300-4		3			9:00-9:50	Tu Th S	M 301	Staff
						10:00-10:50	W FS	M 302	Staff
			3			10:00-10:50	W FS	M 306a	Staff
			3			10:00-10:50	W FS	HEc 202	Staff
			4			10:00-10:50	W FS	M 305	Staff
			4			11:00-11:50	Tu ThF	M 112	Staff
						1:00-1:50	TuW F	HEc 120	Staff
			5			11:00-11:50	M W F	HEc 306	Staff
			5			12:00-12:50	TuW F	M 203B	Staff
			6			1:00-1:50	M W F	HEc 122	Staff
			6			12:00-12:50	TuW F	M 306	Staff
						1:00-1:50	M W F	M 203B	Staff
			6			2:00-2:50	M W F	HEc 122	Staff
			7			1:00-1:50	M W F	M 301	Staff
			7			2:00-2:50	M W F	M 306a	Staff
			8			2:00-2:50	TuW F	M 301	Staff
			8			3:00-3:50	M W F	M 209	Staff
			9			3:00-3:50	MTu Th	HEc 122	Staff
			9			4:00-4:50	Tu ThF	HEc 303	Staff
			10			4:00-4:50	MTu Th	HEc 122	Staff
			10			4:00-4:50	MTu Th	HEc 306	Staff
						6:00-7:25 P.M.	M W F	M 305	Staff
			11			6:00-7:25 P.M.	M W	M 305a	Staff
			11			6:00-7:25 P.M.	M W	HEc 118	Staff
			12			7:35-9:00 P.M.	Tu Th	M 305	Staff
			12			7:35-9:00 P.M.	M W	M 305	Staff
			1			7:35-9:00 P.M.	M W	HEc 303	Staff
			1			9:00-9:50	MTu ThF	HEc 201	Mr. Schneider
			2			1:00-1:50	TuWThF	HEc 201	Mrs. Dodd

Introduction to Semantics	301-3	2	3	2	4:00-4:50	TuWThF	M 302	Mr. Rainbow
			1		12:00-12:50	TuWThF	HEc 306	Mr. Harris
			1		6:00-7:25 P.M.	M W	M 308	Mr. Rainbow
				1	2:00-2:50	M WTh	M 305	Mr. Lingle
English Literature To 1550	302-4		1		11:00-11:50	M WTh	M 305	Mr. Coleman
			1		8:00-8:50	MTu ThF	M 106	Mrs. Krappe
			2		11:00-11:50	MTu ThF	M 306a	Mr. Rainbow
			3		1:00-1:50	MTu ThF	M 302	Mr. Cook
American Literature To 1860	309-4		4		6:00-7:25 P.M.	Tu Th	M 302	Mr. Cook
			1		8:00-8:50	MTu ThF	A 106	Mr. Stibitz
				1	8:00-8:50	MTu ThF	HEc 102	Mr. Pickett
					6:00-7:25 P.M.	M W	M 301	Mr. Pickett
American Literature Since 1860	310-4		2		12:00-12:50	MTu ThF	HEc 122	Mr. Webb
			3		7:35-9:15 P.M.	M W	HEc 201	Mr. Pickett
				1	8:00-8:50	MTu ThF	M 306a	Mr. Webb
				1	11:00-11:50	MTu ThF	HEc 306	Mr. Faner
English Literature 1550-1750	316-4		2		2:00-2:50	MTu ThF	M 305	Mr. Faner
				2	8:00-8:50	MTu ThF	M 302	Miss Barbour
			1		9:00-9:50	MTu ThF	M 302	Miss Burns
			2		11:00-11:50	MTu ThF	HEc 306	Mr. Camp
English Literature After 1750	317-4		3		1:00-1:50	MTuWTh	M 305	Mr. Simeone
			4		3:00-3:50	MTu ThF	HEc 306	Mr. Benziger
			5		6:00-7:25 P.M.	Tu Th	M 301	Mr. Staton
			6		8:00-8:50	MTu ThF	HEc 122	Mr. Grinnell
Early Nineteenth Century Poetry	320-4		1		11:00-11:50	TuWThF	M 301	Mr. Camp
				3	1:00-1:50	MTuW F	M 108	Mrs. Winn
				4	3:00-3:50	TuWThF	M 301	Miss Burns
				5	7:35-9:15 P.M.	Tu Th	M 301	Mr. Parlow
Short Story	335-4				8:00-8:50	MTu ThF	HEc 201	Mr. Grinnell
				1	7:35-9:15 P.M.	M W	HEc 122	Mr. Frank
					9:00-9:50	MTu ThF	M 202	Mr. Baldwin
				1	1:00-1:50	M WTh	M 206	Mr. Frank
Advanced Composition	390-3		1		8:00-8:50	Tu Th S	M 305	Staff
				Tl	8:00-8:50	Tu	M 305a	Staff
					8:00-8:50	W S	M 306a	Staff
				1	8:00-8:50	M W F	HEc 306	Staff
Usage in English	391-3		2		11:00-11:50	M W F	M 302	Staff
				2	9:00-9:50	M	M 305	Staff
					9:00-9:50	Tu Th	M 301	Staff
				2	9:00-9:50	W FS	HEc 306	Staff
			3		12:00-12:50	M	M 305a	Staff

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
ENGLISH (ENG) (Continued)									
Usage in English	391-3						Tu Th	M 305	Staff
			3			12:00-12:50	MTu Th	M 303	Staff
				3		11:00-11:50	M	M 301	Staff
						11:00-11:50	Tu Th	M 302	Staff
		4			2:00-2:50	M WTh	M 108	Staff	
			T4		12:00-12:50	M W F	M 306	Staff	
				4		1:00-1:50	Tu	M 302	Staff
					1:00-1:50	W	M 305	Staff	
					1:00-1:50	F	M 301	Staff	
			5			2:00-2:50	M WTh	M 306	Staff
		5		2:00-2:50	MTu Th	M 301	Staff		
		6			3:00-3:50	MTu Th	M 302	Staff	
				3:00-3:50	Tu Th	M 305a	Staff		
			T6		3:00-3:50	F	M 302	Staff	
					4:00-4:50	Tu ThF	M 203B	Staff	
				6	6:00-7:25 p.m.	Tu Th	M 301	Staff	
		7			6:00-7:25 p.m.	M W	M 302	Staff	
			7		7:35-9:00 p.m.	M W	M 301	Staff	
Professional Writing I	392-3		1		3:00-3:50	M WTh	M 305	Mr. Frank	
Introduction to English Linguistics History of English Language 16th Century Non-Dramatic English Literature 17th Century Non-Dramatic English Literature 18th Century Non-Dramatic English Literature Early Romantics Later Romantics Victorian Poetry Modern British Poetry Modern American Poetry American Literature I to 1789 American Literature II to 1865 American Literature III to 1914	400-4		1		12:00-12:50	MTu ThF	M 106	Mr. Cook	
	403-4			1	8:00-8:50	MTu ThF	M 104	Mrs. Krappe	
	412-4	1			9:00-9:50	MTuW F	HEc 122	Mr. Baldwin	
	413-4	1			5:45-7:25 p.m.	Tu Th	HEc 120	Mr. Simeone	
	414-4		1		11:00-11:50	MTu ThF	M 202	Staff	
	415-4		1		5:45-7:25 p.m.	Tu Th	M 106	Mr. Benziger	
	416-4			1	11:00-11:50	MTu ThF	HEc 122	Mr. Benziger	
	421-4			1	11:00-11:50	MTu ThF	HEc 120	Mr. Schneider	
	422-4		1		4:00-4:50	MTu ThF	M 106	Mr. Moore	
	423-4			1	3:00-3:50	MTu ThF	HEc 306	Mr. Faner	
	431-4				9:00-9:50	MTu ThF	M 313	Mr. Sibitz	
	432-4	1			9:00-9:50	MTu ThF	M 310	Mr. Sibitz	
	433-4			1	9:00-9:50	MTu ThF	HEc 118	Mr. Webb	

Victorian Prose	443-4	1	12:00-12:50	MTu	ThF	HEc 122	Mr. Blinderman
18th Century Novel	454-4	1	2:00-2:50	MTu	ThF	HEc 306	Mr. Coleman
Victorian Novel	455-4	1	3:00-3:50	MTu	ThF	M 313	Mr. Partlow
Contemporary British Fiction	457-4	1	4:00-4:50	MTu	ThF	M 302	Mr. Moore
American Novel	458-4	1	11:00-11:50	MTu	ThF	M 209	Mr. Webb
Contemporary American Fiction	459-4	1	3:00-3:50	MTu	ThF	A 207	Mr. Moore
Restoration and 18th Century Drama	461-4	1	2:00-2:50	MTu	ThF	M 112	Mrs. Winn
Modern Continental Drama	464-4	1	3:00-3:50	MTu	ThF	HEc 306	Mrs. Winn
American Drama	468-4	1	1:00-1:50	MTu	ThF	M 301	Mr. Faner
Chaucer	470-4	1	1:00-1:50	MTu	ThF	HEc 306	Mr. Cook
Shakespeare	471-4	1	8:00-8:50	MTu	ThF	HEc 120	Mr. Baldwin
Shakespeare	472-4	1	8:00-8:50	MTu	ThF	A 106	Mr. Baldwin
Milton	473-4	1	1:00-1:50	MTu	ThF	M 303	Mr. Simeone
Problems in Teaching English	485-4	1	1:00-1:50	MTu	ThF	M 203b	Mr. Lingle
		1	8:00-8:50	MTu	ThF	M 203b	Mr. Lingle
Professional Writing II	492-4	392	12:00-12:50	MTu	ThF	M 106	Mrs. Winn
Professional Writing III	493-4	492	3:00-3:50	MTu	ThF	HEc 122	Mr. Frank
Readings in English	499-2 to 4	Consent of Dept.	3:00-3:50	MTu	ThF	M 106	Mr. Frank
			To be arranged				Staff
Materials and Methods of Research in English	500-2	1	12:00-12:50	Tu	Th	M 207	Mr. Faner
Old English Grammar	501-4	1	11:00-11:50	MTu	ThF	HEc 122	Mr. Schneider
Beowulf	502-4	1	11:00-11:50	MTu	ThF	HEc 122	Mr. Schneider
Studies in the Renaissance	511-4	1	9:00-9:50	MTu	ThF	M 313	Mr. Baldwin
Studies in 17th Century Literature	513-4	1	12:00-12:50	MTu	ThF	HEc 122	Mr. Simeone
Studies in Restoration and 18th Century Literature	514-4	1	2:00-2:50	MTu	ThF	M 106	Staff
Studies in Romantic Writers	520-4	1	9:00-9:50	M	F	M 105	Mr. Benziger
Studies in American Transcendentalism	532-4	1	9:00-9:50	Tu	Th	M 209	Mr. Benziger
Studies in Later 19th Century American Writers: Whitman	536-4	1	7:35-9:00 P.M.	Tu	Th	HEc 120	Mr. Stilbitz
Studies in Later 19th Century American Writers: Mark Twain	536-4	1	1:00-1:50	MTu	ThF	M 308	Mr. Faner
Studies in Shakespeare	566-4	1	1:00-1:50	MTu	ThF	M 108	Mr. Faner
Master's Thesis	599-2 to 9	1	1:00-1:50	MTu	ThF	HEc 122	Mr. Webb
		1	8:00-8:50	MTu	ThF	M 306	Mr. Baldwin
		1	To be arranged				Staff
Dissertation	600-1 to 48	1	To be arranged				

¹ Open to Thompson Point residents only.

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor		
FOOD and NUTRITION (F & N) Nutrition	103-4	Chem. 240									
				F	W	S					
							1	9:00-9:50	MTu F	HEc 212	Miss Wharton
								8:00-9:50	Th	HEc 212	Miss Wharton
							T2	9:00-9:50	MTu F	HEc 212	Staff
Foods	105-4		1								
							8:00-9:50	Tu Th	HEc 212	Mrs. Barnes	
							9:00-9:50	W S	HEc 212	Mrs. Barnes	
			2				11:00-12:50	W F	HEc 212	Mrs. Barnes	
							11:00-11:50	Tu Th	HEc 212	Mrs. Barnes	
			3				5:45-9:15 P.M.	Tu Th	HEc 212	Mrs. Harper	
			4				8:00-9:50	W F	HEc 214	Mrs. Harper	
							9:00-9:50	Tu Th	HEc 214	Mrs. Harper	
			5				2:00-2:50	M W	HEc 212	Mrs. Barnes	
							2:00-3:50	Tu Th	HEc 212	Mrs. Barnes	
	206-4		6								
						2:00-3:50	Tu Th	HEc 214	Mrs. Harper		
						2:00-2:50	W F	HEc 101	Mrs. Harper		
		T7				10:00-11:50	Tu F	HEc 214	Miss Wharton		
						11:00-11:50	M Th	HEc 214	Miss Wharton		
Foods	206-4										
							8:00-9:50	Tu Th	HEc 212	Mrs. Barnes	
			1				9:00-9:50	W S	HEc 212	Mrs. Barnes	
							10:00-11:50	Tu F	HEc 212	Mrs. Harper	
			2				11:00-11:50	W S	HEc 212	Mrs. Harper	
							2:00-3:50	M W	HEc 212	Mrs. Barnes	
							2:00-2:50	Tu	HEc 212	Mrs. Barnes	
			4				3:00-4:50	Tu Th	HEc 214	Miss Wharton	
							3:00-3:50	M W	HEc 214	Miss Wharton	
			5				5:45-9:15 P.M.	M W	HEc 212	Mrs. Barnes	
					10:00-11:50	M W F	HEc 214	Miss Wharton			
					11:00-11:50	M Th	HEc 214	Miss Wharton			
Nutrition	320-4	105, 206, Chem. 240									
								9:00-9:50	M Th	HEc 214	Miss Wharton
				1				9:00-10:50	W F	HEc 214	Miss Wharton
								1:00-1:50	M W	HEc 214	Miss Wharton
				2				1:00-2:50	Tu Th	HEc 214	Miss Wharton
								1:00-2:50	M W	HEc 212	Miss Wharton
								1:00-1:50	Tu Th	HEc 212	Miss Wharton
				1				1:00-2:50	Tu Th	HEc 212	Miss Wharton
								9:00-9:50	M Th	HEc 214	Miss Wharton
								9:00-10:50	W F	HEc 214	Miss Wharton

Food Demonstration	321-3	105, 206	1 2 3 4	11:00-1:50 10:00-12:50 3:00-5:50 2:00-4:50	M Tu Th F M W Tu F Tu F	HEc 101, 103 HEc 101, 103 HEc 101, 103 HEc 101, 103	Mrs. Harper Mrs. Barnes Staff Mrs. Harper
Meal Planning And Table Service	335-4	105, 206	1 2 3 4	10:00-12:50 11:00-1:50 11:00-1:50 11:00-1:50 4:00-6:50 4:00-6:50	M Th M W Tu Th Tu Th M W Tu Th	HEc 101, 103 HEc 101, 103 HEc 101, 103 HEc 101, 103 HEc 105, 107 HEc 105, 107 HEc 105, 107 HEc 105, 107 HEc 105, 107 HEc 212 HEc 212 HEc 214 HEc 214	Mrs. Harper Mrs. Barnes Mrs. Barnes Mrs. Barnes Mrs. Barnes Mrs. Barnes Mrs. Barnes Mrs. Barnes Staff Staff Staff Staff Staff Miss Wharton
Diet Therapy	340-3	320	1	4:00-4:50	M W F	HEc 212	Staff
Institutional Equipment and Layouts	350-3	352	1	3:00-3:50	Tu ThF	HEc 212	Staff
Organization and Management	351-3	350	1	8:00-8:50	Tu Th S	HEc 214	Staff
Quantity Food Production	352-4	Consent of Instr.	1	9:00-11:50 10:00-10:50	W F Tu	HEc 101 HEc 214 HEc 101	Staff Staff Miss Wharton
Food Purchasing for Institutions	355-3	320	1	8:00-8:50	M W F	HEc 214	Staff
Advanced Nutrition	359-4	320	1	8:00-8:50	M WThF	HEc 101	Miss Wharton
Personal and Community Nutrition	404-4		1	7:00-9:30 P. M. Plus 4 extra sessions	M	HEc 101	Miss Wharton
Nutrition and Physical Growth	490-4	320	Tl	9:00-11:30	S	HEc 101	Miss Wharton
Special Problems	480-4	335, 356 or Consent of Instr.	1	3:00-4:50	Tu Th	HEc 214	Mrs. Harper
Recent Trends in Foods	581-4	335	1	5:45-9:15 P. M.	Tu	HEc 214	Mrs. Harper

FOREIGN LANGUAGES (F L)

FRENCH (FR)

Elementary Course

101-3	1 2 3 4 5 ¹ 6 7 8 9 T10	8:00-8:50 8:00-8:50 9:00-9:50 11:00-11:50 11:00-11:50 12:00-12:50 4:00-4:50 6:00-7:25 P. M. 1:00-1:50 2:00-2:50	M W F M W F Tu Th S MTu Th W FS M WTh MTu Th Tu Th M W F M W F	USch 213 Wh 207 Wh 207 Wh 207 Pierce Wh 207 Wh 207 Wh 207 M 106 Wh 214	Staff Staff Staff Staff Staff Staff Staff Staff Staff Staff
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Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor		
FOREIGN LANGUAGES (F L) (continued)											
Elementary Course	101-3		T11			3:00-3:50	M W F	Wh 214	Staff		
			T12			7:30-9:00 p.m.	Tu Th	Wh 207	Staff		
				1		12:00-12:50	M WTh	Wh 207	Staff		
				2		3:00-3:50	M W F	Wh 214	Staff		
French Conversation	101c-1	101† 101†	1			8:00-8:50	Tu	Wh 211	Staff		
			2			8:00-8:50	Th	Wh 211	Staff		
			3			9:00-9:50	M	Wh 203	Staff		
			4			11:00-11:50	F	Wh 203	Staff		
			5 ¹			11:00-11:50	M	Pierce	Staff		
			6			12:00-12:50	F	Wh 207	Staff		
			7			4:00-4:50	W	Wh 207	Staff		
			8			6:00-6:50 p.m.	M	Wh 203	Staff		
			9			1:00-1:50	Tu	Wh 207	Staff		
			T10			2:00-2:50	Tu	Wh 214	Staff		
			T11			3:00-3:50	Tu	Wh 214	Staff		
Elementary Course	102-3	101 or 1 year in H.S.	T12			7:30-8:20	M	Wh 207	Staff		
				1		12:00-12:50	F	Wh 207	Staff		
				2		3:00-3:50	Tu	Wh 214	Staff		
				1		8:00-8:50	M W F	USch 213	Staff		
				2		8:00-8:50	M W F	Wh 207	Staff		
				3		9:00-9:50	Tu Th S	Wh 207	Staff		
				4		11:00-11:50	MTu Th	Wh 207	Staff		
				5 ¹		11:00-11:50	W FS	Pierce	Staff		
				6		4:00-4:50	MTu Th	Wh 207	Staff		
				7		6:00-7:25 p.m.	Tu Th	Wh 207	Staff		
				T8		1:00-1:50	M W F	M 214	Staff		
				9		7:30-9:00 p.m.	Tu Th	Wh 207	Staff		
						12:00-12:50	M WTh	Wh 207	Staff		
			French Conversation	102c-1	102†		1		3:00-3:50	M W F	Wh 214
	2					8:00-8:50	Tu	Wh 211	Staff		
	3					9:00-9:50	M	Wh 203	Staff		
	4					11:00-11:50	F	Wh 203	Staff		
	5 ¹					11:00-11:50	M	Pierce	Staff		
	6					4:00-4:50	W	Wh 207	Staff		
	7					6:00-6:50 p.m.	M	Wh 203	Staff		
	T8					1:00-1:50	Tu	Wh 207	Staff		
	T9					2:00-2:50	Tu	Wh 214	Staff		

Elementary Course	103-3	102 or 1 year H.S.	T10	1	7:30-8:20 P.M.	M	Wh 207	Staff
				2	12:00-12:50	Tu	Wh 207	Staff
				3	3:00-3:50	M	Wh 214	Staff
				4	8:00-8:50	M	USch 213	Staff
				5	9:00-9:50	M	Wh 207	Staff
				6	11:00-11:50	Tu	Wh 207	Staff
				7	1:00-1:50	MTu	Wh 207	Staff
				8	3:00-3:50	W	Pierce	Staff
				9	4:00-4:50	MTu	Wh 207	Staff
				10	6:00-7:25 P.M.	Tu	Wh 207	Staff
French Conversation	103e-1	103†	T10	1	7:30-8:20 P.M.	M	Wh 207	Staff
				2	12:00-12:50	Tu	Wh 207	Staff
				3	3:00-3:50	M	Wh 214	Staff
				4	8:00-8:50	M	USch 213	Staff
				5	9:00-9:50	M	Wh 207	Staff
				6	11:00-11:50	Tu	Wh 207	Staff
				7	1:00-1:50	MTu	Wh 207	Staff
				8	3:00-3:50	W	Pierce	Staff
				9	4:00-4:50	MTu	Wh 207	Staff
				10	6:00-7:25 P.M.	Tu	Wh 207	Staff
Intermediate Course	151-3	103 or 2 years H.S.	T10	1	7:30-8:20 P.M.	M	Wh 207	Staff
				2	12:00-12:50	Tu	Wh 207	Staff
				3	3:00-3:50	M	Wh 214	Staff
				4	8:00-8:50	M	USch 213	Staff
				5	9:00-9:50	M	Wh 207	Staff
				6	11:00-11:50	Tu	Wh 207	Staff
				7	1:00-1:50	MTu	Wh 207	Staff
				8	3:00-3:50	W	Pierce	Staff
				9	4:00-4:50	MTu	Wh 207	Staff
				10	6:00-7:25 P.M.	Tu	Wh 207	Staff
Intermediate Course	152-3	151 or 2 years H.S.	T10	1	7:30-8:20 P.M.	M	Wh 207	Staff
				2	12:00-12:50	Tu	Wh 207	Staff
				3	3:00-3:50	M	Wh 214	Staff
				4	8:00-8:50	M	USch 213	Staff
				5	9:00-9:50	M	Wh 207	Staff
				6	11:00-11:50	Tu	Wh 207	Staff
				7	1:00-1:50	MTu	Wh 207	Staff
				8	3:00-3:50	W	Pierce	Staff
				9	4:00-4:50	MTu	Wh 207	Staff
				10	6:00-7:25 P.M.	Tu	Wh 207	Staff
French for Graduate Students	161-0	152 or 3 yrs. H.S. French	T10	1	7:30-8:20 P.M.	M	Wh 207	Staff
				2	12:00-12:50	Tu	Wh 207	Staff
				3	3:00-3:50	M	Wh 214	Staff
				4	8:00-8:50	M	USch 213	Staff
				5	9:00-9:50	M	Wh 207	Staff
				6	11:00-11:50	Tu	Wh 207	Staff
				7	1:00-1:50	MTu	Wh 207	Staff
				8	3:00-3:50	W	Pierce	Staff
				9	4:00-4:50	MTu	Wh 207	Staff
				10	6:00-7:25 P.M.	Tu	Wh 207	Staff
French Conversation	220-2 to 6	103 or 2 years H.S.	T10	1	7:30-8:20 P.M.	M	Wh 207	Staff
				2	12:00-12:50	Tu	Wh 207	Staff
				3	3:00-3:50	M	Wh 214	Staff
				4	8:00-8:50	M	USch 213	Staff
				5	9:00-9:50	M	Wh 207	Staff
				6	11:00-11:50	Tu	Wh 207	Staff
				7	1:00-1:50	MTu	Wh 207	Staff
				8	3:00-3:50	W	Pierce	Staff
				9	4:00-4:50	MTu	Wh 207	Staff
				10	6:00-7:25 P.M.	Tu	Wh 207	Staff
18th and 19th Century French Novel	301-3	153 or 3 yrs. H.S. French	T10	1	7:30-8:20 P.M.	M	Wh 207	Staff
				2	12:00-12:50	Tu	Wh 207	Staff
				3	3:00-3:50	M	Wh 214	Staff
				4	8:00-8:50	M	USch 213	Staff
				5	9:00-9:50	M	Wh 207	Staff
				6	11:00-11:50	Tu	Wh 207	Staff
				7	1:00-1:50	MTu	Wh 207	Staff
				8	3:00-3:50	W	Pierce	Staff
				9	4:00-4:50	MTu	Wh 207	Staff
				10	6:00-7:25 P.M.	Tu	Wh 207	Staff

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
FOREIGN LANGUAGES (F L) (Continued)									
Seminar on a Selected French Author (Balzac)	501A-2		1	1	1	To be arranged			Miss Peacock
Seminar on a Selected French Author (Baudelaire)	501B-2		1	1	1	To be arranged			Miss Smith
Seminar on a Selected French Author (Moliere)	501C-2		1	1	1	To be arranged			Miss Smith
Seminar on a Selected French Author (Montaigne)	501D-2		1	1	1	To be arranged			Miss Peacock
Seminar on a Selected French Author (Proust)	501E-2		1	1	1	To be arranged			Miss Peacock
French Thesis	599-2 to 6		1	1	1	To be arranged			Miss Peacock or Miss Smith
† Open to Thompson Point residents only.									
† Concurrent enrollment.									
GERMAN (GER)									
Elementary Course									
101-3			1			8:00-8:50	Tu Th S	Wh 212	Staff
			2			9:00-9:50	W FS	Wh 214	Staff
			3			9:00-9:50	Tu Th S	Wh 212	Staff
			4 ¹			11:00-11:50	M W F	BrownH	Staff
			5			2:00-2:50	M W F	Wh 212	Staff
			6			3:00-3:50	M W F	Wh 212	Staff
			7			2:00-2:50	Tu Th	Wh 212	Staff
						2:00-2:50	F	Wh 207	Staff
			T8			6:00-7:25 P.M.	Tu Th	Wh 212	Staff
			T9			3:00-3:50	Tu Th	Wh 212	Staff
						3:00-3:50	F	Wh 207	Staff
101c-1	101†	T10			8:00-8:50	Tu Th S	Wh 212	Staff	
		T11			6:00-7:25 P.M.	M W	Wh 207	Staff	
			1		9:00-9:50	Tu Th S	Wh 212	Staff	
			2		2:00-2:50	Tu Th	Wh 212	Staff	
					2:00-2:50	F	Wh 207	Staff	
					8:00-8:50	W	Wh 211	Staff	
		1			9:00-9:50	Tu	Wh 211	Staff	
		2			9:00-9:50	Tu	Wh 211	Staff	
		3			9:00-9:50	M	Wh 211	Staff	
		4 ¹			11:00-11:50	Tu	BrownH	Staff	

¹ Open to Thompson Point residents only.

† Concurrent enrollment.

Elementary Course	102-3	101 or one yr. of H.S.	5	2:00-2:50	Th	Wh 214	Staff
			6	3:00-3:50	Th	Wh 214	Staff
			7	2:00-2:50	W	Wh 207	Staff
			8	6:00-6:50 P.M.	W	Wh 214	Staff
			9	3:00-3:50	W	Wh 203	Staff
			T10	8:00-8:50	F	Wh 211	Staff
			T11	6:00-6:50 P.M.	Th	Wh 203	Staff
			1	9:00-9:50	M	Wh 211	Staff
			2	2:00-2:50	W	Wh 207	Staff
			1	8:00-8:50	Tu Th S	Wh 212	Staff
			2	9:00-9:50	W FS	Wh 214	Staff
German Conversation	102c-1	102†	3 ¹	11:00-11:50	M W F	BrownH	Staff
			4	2:00-2:50	M W F	Wh 212	Staff
			5	3:00-3:50	M W F	Wh 212	Staff
			6	6:00-7:25 P.M.	Tu Th	Wh 212	Staff
			7	3:00-3:50	Tu Th	Wh 212	Staff
			T8	8:00-8:50	Tu Th S	Wh 207	Staff
			T9	6:00-7:25 P.M.	M W	Wh 212	Staff
			1	9:00-9:50	Tu Th S	Wh 212	Staff
			2	2:00-2:50	Tu Th	Wh 212	Staff
			1	2:00-2:50	F	Wh 207	Staff
			Elementary Course	103-3	102 or 1 yr. H.S.	1	8:00-8:50
2	8:00-8:50	W				Wh 211	Staff
3	9:00-9:50	Tu				Wh 211	Staff
4 ¹	11:00-11:50	Tu				BrownH	Staff
5	2:00-2:50	Th				Wh 214	Staff
6	3:00-3:50	Th				Wh 214	Staff
7	6:00-6:50 P.M.	W				Wh 214	Staff
8	3:00-3:50	W				Wh 203	Staff
T9	8:00-8:50	F				Wh 211	Staff
T10	6:00-6:50 P.M.	Th				Wh 203	Staff
Elementary Course	103-3	102 or 1 yr. H.S.				1	9:00-9:50
			2	2:00-2:50	W	Wh 207	Staff
			1	8:00-8:50	M W F	Wh 212	Staff
			2	8:00-8:50	Tu Th S	Wh 212	Staff
			T3	9:00-9:50	W FS	Wh 214	Staff
			4 ¹	11:00-11:50	M W F	BrownH	Staff
			5	2:00-2:50	M W F	Wh 212	Staff
			6	3:00-3:50	M W F	Wh 212	Staff
			7	6:00-7:25 P.M.	Tu Th	Wh 212	Staff
			8	3:00-3:50	Tu Th	Wh 212	Staff
				3:00-3:50	F	Wh 207	Staff

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
FOREIGN LANGUAGES (F L) (Continued)								
Elementary Course	103-3		F	W	S			
				T9	8:00-8:50	Tu Th S	Wh 207	Staff
				T10	6:00-7:25 P.M.	M W	Wh 212	Staff
German Conversation	103c-1	103†		1	8:00-8:50	Tu	Wh 107	Staff
				2	8:00-8:50	W	Wh 211	Staff
				T3	9:00-9:50	Tu	Wh 211	Staff
				4 ¹	11:00-11:50	Tu	BrownH	Staff
				5	2:00-2:50	Th	Wh 214	Staff
				6	3:00-3:50	Th	Wh 214	Staff
				7	6:00-6:50 P.M.	W	Wh 214	Staff
				8	3:00-3:50	W	Wh 203	Staff
				T9	8:00-8:50	W	Wh 211	Staff
				T10	6:00-6:50 P.M.	Th	Wh 203	Staff
Intermediate Course	151-3	103 or 2 yrs. H.S.	1		1:00-1:50	M W F	Wh 212	Mr Hartwig
			2		8:00-8:50	M W F	Wh 212	Mr Liedloff
Intermediate Course	152-3	151		1	1:00-1:50	M W F	Wh 212	Mr Hartwig
				2	8:00-8:50	M W F	Wh 212	Mr Hartwig
Intermediate Course	153-3	152		1	1:00-1:50	M W F	Wh 212	Mr Liedloff
German for Graduate Students	161-0		1		To be arranged		Wh 212	Mr Hartwig
German Conversation	220-2 to 6	103 or 2 yrs. H.S.	1	1	10:00-10:50	W F	Wh 212	Staff
Introduction to German Classical Literature	311-4	153	1		2:00-2:50	MTu ThF	Wh 211	Mr. Hartwig
Introduction to German Classical Literature	312-4	153		1	2:00-2:50	MTu ThF	Wh 211	Mr. Hartwig
German Drama in the 19th Century	313-4	153		1	2:00-2:50	MTu ThF	Wh 211	Mr. Hartwig
Goethe's Faust, Part I	401-2		1		To be arranged			Mr. Liedloff
Goethe's Faust, Part II	402-2			1	To be arranged			Mr. Liedloff
German Ballads, and Lyrics	403-3			1	To be arranged			Mr. Liedloff

¹ Open to Thompson Point residents only.

† Concurrent enrollment.

GREEK (GRK) Elementary Course Elementary Course Elementary Course Intermediate Course Intermediate Course	101-4	1	8:00-8:50	TuWThF	Wh 203	Miss Barry
	102-4	1	8:00-8:50	TuWThF	Wh 203	Miss Barry
	103-4	1	8:00-8:50	TuWThF	Wh 203	Miss Barry
	151-4	1	To be arranged			Miss Barry
	152-4	1	To be arranged			Miss Barry
Introduction to Greek History Plato Aristotle Classical Mythology	153-4	1	To be arranged			Miss Barry
	301-4	1	To be arranged			Miss Barry
	302-4	1	To be arranged			Miss Barry
	303-4	1	To be arranged			Miss Barry
	330-3	1	2:00-2:50	M W F	Wh 214	Miss Barry
LATIN (LTN) Elementary Course Elementary Course Elementary Course Intermediate Composition Cicero's Essays Livy	101-3	1	1:00-1:50	M W F	Wh 207	Miss Barry
	102-3	1	1:00-1:50	M W F	Wh 207	Miss Barry
	103-3	1	1:00-1:50	M W F	Wh 207	Miss Barry
	151-4	1	11:00-11:50	MTu ThF	Wh 211	Miss Barry
	152-4	1	11:00-11:50	MTu ThF	Wh 211	Miss Barry
Phormio of Terence Letters of Pliny Advanced Composition	153-4	1	11:00-11:50	MTu ThF	Wh 211	Miss Barry
	311-4	1	9:00-9:50	TuWThF	Wh 203	Miss Barry
	313-4	1	9:00-9:50	TuWThF	Wh 203	Miss Barry
	343-4	1	9:00-9:50	TuWThF	Wh 203	Miss Barry
	410-4	1	To be arranged			Mr. Davis
ROMANCE PHILOLOGY Romance Philology I						
RUSSIAN (RUSS) Elementary Course	101-3	1	11:00-11:50	M W F	M 210	Miss Neufeld
		2	6:00-7:25 P.M.	Tu Th	Wh 214	Miss Neufeld
	T3		3:00-3:50	MTu Th	Wh 207	Staff
	T4		4:00-4:50	MTu Th	Wh 212	Staff

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
FOREIGN LANGUAGES (F L) (Continued)								
Russian Conversation	101c-1	101†	1 2 T3 T4		11:00-11:50 6:00-6:30 P.M. 3:00-3:50 4:00-4:50	Tu M W W	M 111 Wh 214 Wh 207 Wh 212	Miss Neufeld Miss Neufeld Staff Staff
Elementary Course	102-3	101	1 2 T3 T4		11:00-11:50 6:00-7:25 P.M. 3:00-3:50 4:00-4:50	M W F Tu Th MTu Th MTu Th	M 203 Wh 214 Wh 207 Wh 212	Miss Neufeld Miss Neufeld Staff Staff
Russian Conversation	102c-1	102†	1 2 T3 T4		11:00-11:50 6:00-6:50 P.M. 3:00-3:50 4:00-4:50	Tu M W W	M 207 Wh 214 Wh 207 Wh 212	Miss Neufeld Miss Neufeld Staff Staff
Elementary Course	103-3	102	1 2 T3 T4		11:00-11:50 11:00-11:50 6:00-7:25 P.M. 3:00-3:50 4:00-4:50	M F W Tu Th MTu Th MTu Th	M 107 M 206 Wh 214 Wh 207 Wh 212	Miss Neufeld Miss Neufeld Miss Neufeld Staff Staff
Russian Conversation	103c-1	103†	1 2 T3 T4		11:00-11:50 6:00-6:50 P.M. 3:00-3:50 4:00-4:50	Tu M W W	M 207 Wh 214 Wh 207 Wh 212	Miss Neufeld Miss Neufeld Staff Staff
Intermediate Course	151-3	103	1		12:00-12:50	M W F	Wh 212	Miss Neufeld
Intermediate Course	152-3	151			12:00-12:50	M W F	Wh 212	Miss Neufeld
Intermediate Course	153-3	152			12:00-12:50	M W F	Wh 212	Miss Neufeld
Russian Conversation	220-2 to 6	103	1	T1	12:00-12:50	Tu Th	Wh 212	Miss Neufeld
Introduction to Russian Classical Literature	311-4	153	1		To be arranged			Miss Neufeld
Introduction to Russian Classical Literature	312-4	153		T1	To be arranged			Miss Neufeld
Russian Drama in the 19th Century † Concurrent enrollment.	313-4	153		T1	To be arranged			Miss Neufeld

Elementary Course	101-3	1	8:00-8:50	M	W F	Wh 214	Staff	
		2	9:00-9:50	MTu	Th	Wh 214	Staff	
		3 ¹	11:00-11:50	Tu	Th	Pierce	Staff	
		T4	11:00-11:50		S	Bailey	Staff	
		T5	12:00-12:50	M	W F	Wh 214	Staff	
			1:00-1:50	M	W	Wh 214	Staff	
	Spanish Conversation	101c-1	T6	1:00-1:50	MTu	Th	Wh 212	Staff
			7	4:00-4:50	M	W	Wh 214	Staff
			8	6:00-7:25 P.M.			Wh 207	Staff
			T8	8:00-8:50	Tu	Th S	Wh 214	Staff
			9 ²	9:00-9:50	M	W F	Wh 212	Staff
			1	12:00-12:50	M	WTh	Wh 214	Mr. Carter
Elementary Course		102-3	1	8:00-8:50		S	Wh 203	Staff
			2	9:00-9:50	W		Wh 211	Staff
			3 ¹	11:00-11:50	W		Bailey	Staff
			T4	12:00-12:50	Tu	Th	Wh 207	Staff
			T5	1:00-1:50		Th	Wh 203	Staff
			T6	4:00-4:50	W		Wh 203	Staff
	Spanish Conversation	102c-1	7	6:00-6:50 P.M.	Tu		Wh 211	Staff
			T8	8:00-8:50	M		Wh 203	Staff
			9 ²	9:00-10:50		S	Wh 203	Staff
			10 ²	12:00-1:50	Tu		Wh 203	Staff
			11 ²	11:00-12:50	Tu	Th	Wh 203	Staff
			12 ²	5:45-7:25 P.M.	Tu		Wh 203	Staff
Elementary Course		102-3	1	12:00-12:50	Tu	Th	Wh 207	Staff
			T1	8:00-8:50	M	W F	Wh 214	Staff
			2	9:00-9:50	Tu	Th	Wh 214	Staff
			3 ¹	9:00-9:50	M		Wh 214	Staff
				11:00-11:50	Tu	Th	Pierce	Staff
				11:00-11:50		S	Bailey	Staff
	Spanish Conversation	102c-1	T4	1:00-1:50	M	W	Wh 214	Staff
			T5	1:00-1:50	MTu	Th	Wh 212	Staff
			6	4:00-4:50	M	W	Wh 214	Staff
			7	6:00-7:25 P.M.			Wh 207	Staff
			8 ²	8:00-8:50	Tu	Th S	Wh 214	Staff
				9:00-9:50	M	W F	Wh 212	Staff

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
FOREIGN LANGUAGES (F L) (Continued)								
Spanish Conversation	102c-1		F	W	S			
			T5			4:00-4:50	Wh 203	Staff
			6			6:00-6:50 P.M.	Wh 211	Staff
			T7			8:00-8:50	Wh 203	Staff
			8 ²			9:00-10:50	Wh 203	Staff
			9 ²			12:00-1:50	Wh 203	Staff
			10 ²			11:00-12:50	Wh 203	Staff
			11 ²			5:45-7:25 P.M.	Wh 203	Staff
			1			12:00-12:50	Wh 207	Staff
Elementary Course	103-3	102 or 1 yr. H.S.	T1			8:00-8:50	Wh 214	Staff
			2			9:00-9:50	Wh 214	Staff
			3 ¹			11:00-11:50	Pierce	Staff
			T4			11:00-11:50	Bailey	Staff
			T4			1:00-1:50	Wh 214	Staff
						1:00-1:50	Wh 212	Staff
			T5			4:00-4:50	Wh 214	Staff
			6			6:00-7:25 P.M.	Wh 207	Staff
			7			8:00-8:50	Wh 214	Staff
			8 ²			9:00-9:50	Wh 212	Staff
								Mr. Carter
Spanish Conversation	103c-1	103†	T1			8:00-8:50	Wh 203	Staff
			2			9:00-9:50	Wh 211	Staff
			3 ¹			11:00-11:50	Bailey	Staff
			T4			1:00-1:50	Wh 203	Staff
			T5			4:00-4:50	Wh 203	Staff
			6			6:00-6:50 P.M.	Wh 211	Staff
			7			8:00-8:50	Wh 203	Staff
			8 ²			9:00-10:50	Wh 203	Staff
			9 ²			12:00-1:50	Wh 203	Staff
			10 ²			11:00-12:50	Wh 203	Staff
			11 ²			5:45-7:25 P.M.	Wh 203	Staff
Intermediate Course	151-3	103 or 2 yrs. H.S.	1			11:00-11:50	Wh 212	Mr. Davis
			2			1:00-1:50	Wh 214	Mr. Davis
			3			3:00-3:50	Wh 203	Staff
			1			11:00-11:50	Wh 212	Mr. Davis
Intermediate Course	152-3	151 or 3 yrs. H.S.	2			1:00-1:50	Wh 214	Mr. Davis
			1			11:00-11:50	Wh 212	Mr. Davis
Intermediate Course	153-3	152 or 3 yrs. H.S.						

Spanish Conversation	220-2 to 6	103 or 2 yrs. H.S.	1 2	1 2	1 2	10:00-10:50 1:00-1:50	W M	F W	Wh 203 Wh 203	Staff Staff
Advanced Composition and Conversation	320-2	153	1			11:00-11:50	Tu	Th	Wh 212	Mr. Davis
Advanced Composition and Conversation	321-2	153		1		11:00-11:50	Tu	Th	Wh 212	Mr. Davis
Advanced Composition and Conversation	322-2	153			1	11:00-11:50	Tu	Th	Wh 212	Mr. Davis
Survey of Spanish American Literature	333-3	153	1			11:00-11:50	M	W F	Wh 214	Mr. Carter
Survey of Spanish American Literature	334-3	153		1		11:00-11:50	M	W F	Wh 214	Mr. Carter
Survey of Spanish American Literature	335-3	153			1	11:00-11:50	M	W F	Wh 214	Mr. Carter
Spanish Phonetics	415-3		1			2:00-2:50	MTu	Th	Wh 203	Mr. Davis
Seminar in Latin-American Literature	500-2		1			3:00-4:50	Tu		M 207	Mr. Carter
Seminar on a Selected Spanish Author	501-2		1			3:00-4:50	Tu		Wh 203	Mr. Carter
The Picaresque Novel	505-3		1			To be arranged				Mr. Baralt
The Renaissance	506-3		1			To be arranged				Mr. Baralt
The Spanish Ballads	525-3			1		To be arranged				Mr. Baralt
Latin American Poetry	530-3			1		To be arranged				Mr. Carter
Ensayistas Mexicanos Del Siglo Diecinueve	535-3			1		To be arranged				Mr. Bork
Thesis	599-2 to 6		1	1	1	To be arranged				Mr. Davis or Mr. Carter
¹ Open to Thompson Point residents only.										
² Special section with emphasis on conversation. For majors, minors, and others desiring to speak Spanish. Three hours of grammar, two hours of conversation, one hour of laboratory. Students must enroll in one of the special Spanish Conversation courses. The hour per week in the laboratory required as homework will be arranged.										
† Concurrent enrollment.										
FORESTRY (FOR)										
Introduction to Forestry	104-3		1			8:00-8:50	M	Th	Ag 214	Mr. Hosley
			2			8:00-9:50	M	W	Ag 214	Mr. Hosley
						8:00-8:50	M	Th	Ag 214	Mr. Hosley
						8:00-9:50	M	W	Ag 214	Mr. Hosley
			1			8:00-8:50	M	F	Ag 214	Mr. Hosley
						8:00-9:50	M	F	Ag 214	Mr. Hosley

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor	
FORESTRY (FOR) (Continued)										
Hardwood Dendrology	221-3	Bot. 101			1	8:00-8:50	MTu	Ag 168	Mr. Hosley	
						8:00-10:50	W	Ag 171	Mr. Hosley	
					2	8:00-8:50	MTu	Ag 168	Mr. Hosley	
Softwood Dendrology	222-3	Bot. 101	1			8:00-10:50	F	Ag 171	Mr. Hosley	
						2:00-2:50	Tu	Ag 166	Mr. Hosley	
						2:00-4:50	M	Ag 187	Mr. Hosley	
			2			2:00-2:50	Tu	Ag 166	Mr. Hosley	
					2:00-4:50	W	Ag 187	Mr. Hosley		
Silvical Field Studies Wood Technology Logging and Milling Utilization Studies Forest Fire Control Forest Recreation Farm Forestry Field Mensuration Forest Mensuration	306-3	Bot. 101			1	To be arranged		Camp	Mr. Hosner	
	320-4	Bot. 101	1			1:00-2:50	MTu	Th	Ag 181	Staff
						2:00-2:50	F	Ag 147	Staff	
	330-4		1			9:00-9:50	MTu	Th	Ag 181	Staff
						1:00-3:50	W	Ag 171	Staff	
	331-2		1			To be arranged	Camp	Camp	Staff	
	340-3		1			To be arranged	Camp	Camp	Staff	
	350-2		1			To be arranged	Camp	Camp	Staff	
	360-4		1			4:00-4:50	M	WTh	Ag 214	Mr. Hosner
						3:00-4:50	Tu	Ag 216	Mr. Hosley	
Principles of Silviculture	362-3				1	To be arranged	Camp	Camp	Staff	
	363-4	Math. 111	1			9:00-9:50	MTu	Th	Ag 154	Staff
						8:00-10:50	W	Ag 174	Staff	
			2			9:00-9:50	MTu	Th	Ag 154	Staff
						8:00-10:50	F	Ag 181	Staff	
	364-4	Bot. 101	1			1:00-1:50	MTu	Th	Ag 181	Mr. Hosner
						1:00-3:50	W	Ag 181	Mr. Hosner	
			2			1:00-1:50	MTu	Th	Ag 181	Mr. Hosner
						1:00-3:50	F	Ag 181	Mr. Hosner	
						12:00-12:50	M	WTh	Ag 144	Mr. Hosner
Practice of Silviculture Regional Silviculture Field Silviculture Forest Management	365-3	364	1			11:00-11:50	TuW	F	Ag 168	Mr. Hosley
	366-3	365	1			To be arranged	Camp	Camp	Mr. Hosner	
	367-3	364, 365	1		1	12:00-12:50	MTu	F	Ag 172	Staff
	375-4	364, 365, 363	1			12:00-12:50	W	Ag 181	Staff	
Agricultural Seminar ¹	381-1	Senior Stand	1			4:00-5:15	Tu	Ag 116	Mr. Caster	
					1	4:00-5:15	Tu	Ag 225	Mr. Wills	
Special Problems in Forestry	390-1 to 8	Consent of Dept.	1		1	4:00-5:15	Tu	Ag 116	Mr. Burnside	
						To be arranged			Staff	

Mineral Nutrition of Plants ²	427-4	Bot. 320	Tl	9:00-9:50	MTu	Ag 181	Mr. Kelly
Ecology of Grasses and Grasslands ²	440-4	Bot. 340 or of Instr.	Tl	9:00-10:50	W	Ag 187	Mr. Kelly
Advanced Silviculture	464-4	364, 365	Tl	10:00-10:50	W	LS 313	Mr. Voigt
Forestry Field Studies	465-2 to 4	364, 365, 363, 375		10:00-11:50	S	LS 313	Mr. Voigt
Economics of Production, Forestry	470-4	Econ. 205		3:00-4:50	Tu	Ag 190	Mr. Hosner
Land Resource Economics ⁴	471-4	470 or Ag. I. 350 or Econ. 440	1	To be arranged	M	Ag 144	Mr. Beazley
Economics and Planning in Forestry	475-4	470		11:00-11:50	W	Ag 146	Mr. Beazley
				3:00-3:50	M	Ag 168	Mr. Beazley
				3:00-4:50	Th	Ag 168	Mr. Beazley
				3:00-3:50	MTu	Ag 168	Mr. Beazley
				3:00-4:50	'Th	Ag 168	Mr. Beazley
Readings in Forestry	520A-1 to 6		1	To be arranged			Staff
Readings in Resource Economics	520B-1 to 6 471		1	To be arranged			Staff
Research	575-1 to 6		1	To be arranged			Staff
Seminar	581-1 to 6		1	To be arranged			Staff
Thesis	599-2 to 9		1	To be arranged			Staff

¹ Cross-listed with Agricultural Industries, Animal Industries, and Plant Industries.

² Cross-listed with Plant Industries and Botany.

³ Cross-listed with Botany.

⁴ Cross-listed with Agricultural Industries and Economics.

FRESHMAN CONVOCATION (F C)

(Advisers are to enter Freshman Convocation on progra
Freshman Convocation

To be arranged Aud.

1 1 1 10:00-10:50
m cards of all students registering as Freshmen.)

GEOGRAPHY (GEOG)

Geography of Man

M W S
Tu Th
M W F
Tu Th
Tu Th

8:00-8:50
8:00-8:50
11:00-11:50
9:00-9:50
9:00-9:50
8:00-8:50

1
Tl
1

100-5

Ag 101
Ag 146
Ag 101
Ag 148
Browne
Ag 148

Staff
Staff
Staff
Staff
Staff
Staff

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
			F	W				
GEOGRAPHY (GEOG) (Continued) Geography of Man	100-5		T2	2	8:00-8:50	M W S	Ag 101	Staff
					8:00-8:50	Tu Th	Ag 148	Staff
					11:00-11:50	M W F	Ag 101	Staff
					11:00-11:50	Tu Th	Ag 144	Staff
				2	9:00-9:50	W FS	Browne	Staff
					8:00-8:50	Tu Th	Ag 150	Staff
			T3		8:00-8:50	M W S	Ag 101	Staff
					8:00-8:50	Tu Th	Ag 150	Staff
				3	11:00-11:50	M W F	Ag 101	Staff
					11:00-11:50	Tu Th	Ag 146	Staff
				3	9:00-9:50	W FS	Browne	Staff
					9:00-9:50	Tu Th	Ag 146	Staff
			4		8:00-8:50	M W S	Ag 101	Staff
					8:00-8:50	Tu Th	Ag 154	Staff
				4	11:00-11:50	M W F	Ag 101	Staff
					11:00-11:50	Tu Th	Ag 150	Staff
				T4	9:00-9:50	W FS	Browne	Staff
					9:00-9:50	Tu Th	Ag 148	Staff
			5		8:00-8:50	M W S	Ag 101	Staff
					8:00-8:50	Tu Th	Ag 224	Staff
				5	11:00-11:50	M W F	Ag 101	Staff
					12:00-12:50	Tu Th	Ag 146	Staff
				T5	9:00-9:50	W FS	Browne	Staff
					9:00-9:50	Tu Th	Ag 150	Staff
			6		8:00-8:50	M W S	Ag 101	Staff
					9:00-9:50	Tu Th	Ag 144	Staff
				6	11:00-11:50	M W F	Ag 101	Staff
					12:00-12:50	Tu Th	Ag 148	Staff
				6	9:00-9:50	W FS	Browne	Staff
					9:00-9:50	Tu Th	Ag 154	Staff
			T7		8:00-8:50	M W S	Ag 101	Staff
					9:00-9:50	Tu Th	Ag 146	Staff
				T7	11:00-11:50	M W F	Ag 101	Staff
					12:00-12:50	Tu Th	Ag 150	Staff
				7	9:00-9:50	W FS	Browne	Staff
					9:00-9:50	Tu Th	Ag 224	Staff
			8		8:00-8:50	M W S	Ag 101	Staff
					9:00-9:50	Tu Th	Ag 224	Staff

8	11:00-11:50	M W F	Ag 101	Staff
	1:00-1:50	Tu Th	Ag 148	Staff
8	9:00-9:50	W FS	Browne	Staff
	12:00-12:50	Tu Th	Ag 148	Staff
9	8:00-8:50	M W S	Ag 101	Staff
	12:00-12:50	Tu Th	Ag 146	Staff
T9	11:00-11:50	M W F	Ag 101	Staff
	1:00-1:50	Tu Th	Ag 150	Staff
	9:00-9:50	W FS	Browne	Staff
	12:00-12:50	Tu Th	Ag 150	Staff
T10	8:00-8:50	M W S	Ag 101	Staff
	5:45-7:25 P.M.	Tu	Ag 154	Staff
	11:00-11:50	M W F	Ag 101	Staff
T10	5:45-7:25 P.M.	Tu	Ag 154	Staff
	9:00-9:50	W FS	Browne	Staff
	5:45-7:25 P.M.	Tu	Ag 224	Staff
T11	2:00-2:50	M W F	Browne	Staff
	2:00-2:50	Tu Th	Ag 146	Staff
11	4:00-4:50	M W F	Browne	Staff
	2:00-2:50	Tu Th	Ag 154	Staff
	4:00-4:50	M W F	Browne	Staff
	12:00-12:50	Tu Th	Ag 146	Staff
T12	2:00-2:50	M W F	Browne	Staff
	2:00-2:50	Tu Th	Ag 150	Staff
	4:00-4:50	M W F	Browne	Staff
	3:00-3:50	Tu Th	Ag 148	Staff
	4:00-4:50	M W F	Browne	Staff
12	12:00-12:50	Tu Th	Ag 154	Staff
	2:00-2:50	M W F	Browne	Staff
	2:00-2:50	Tu Th	Ag 154	Staff
13	4:00-4:50	M W F	Ag 154	Staff
	3:00-3:50	Tu Th	Browne	Staff
T13	4:00-4:50	M W F	Ag 150	Staff
	4:00-4:50	M W F	Browne	Staff
	3:00-3:50	Tu Th	Ag 148	Staff
14	2:00-2:50	M W F	Browne	Staff
	2:00-2:50	Tu Th	Ag 224	Staff
	4:00-4:50	M W F	Browne	Staff
	3:00-3:50	Tu Th	Ag 154	Staff
T14	4:00-4:50	M W F	Browne	Staff
	3:00-3:50	Tu Th	Ag 150	Staff
15	2:00-2:50	M W F	Browne	Staff
	3:00-3:50	Tu Th	Ag 146	Staff

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
GEOGRAPHY (GEO) (continued)								
Geography of Man	100-5							
			15		4:00-4:50	M W F	Browne	Staff
				15	4:00-4:50	Tu Th	Ag 146	Staff
					4:00-4:50	M W F	Browne	Staff
					4:00-4:50	Tu Th	Ag 146	Staff
		T16			2:00-2:50	M W F	Browne	Staff
					3:00-3:50	Tu Th	Ag 150	Staff
			16		4:00-4:50	M W F	Browne	Staff
					4:00-4:50	Tu Th	Ag 148	Staff
				T16	4:00-4:50	M W F	Browne	Staff
					4:00-4:50	Tu Th	Ag 148	Staff
					2:00-2:50	M W F	Browne	Staff
		17			4:00-4:50	Tu Th	Ag 146	Staff
					4:00-4:50	M W F	Browne	Staff
			T17		4:00-4:50	Tu Th	Ag 150	Staff
					4:00-4:50	M W F	Browne	Staff
					4:00-4:50	Tu Th	Ag 150	Staff
			18		2:00-2:50	M W F	Browne	Staff
					4:00-4:50	Tu Th	Ag 150	Staff
					4:00-4:50	M W F	Browne	Staff
					4:00-4:50	Tu Th	Ag 144	Staff
					4:00-4:50	M W F	Browne	Staff
				18	4:00-4:50	Tu Th	Ag 144	Staff
					2:00-2:50	M W F	Browne	Staff
					4:00-4:50	Tu Th	Ag 224	Staff
					4:00-4:50	M W F	Browne	Staff
					4:00-4:50	Tu Th	Ag 224	Staff
				19	4:00-4:50	M W F	Browne	Staff
					4:00-4:50	Tu Th	Ag 224	Staff
					2:00-2:50	M W F	Browne	Staff
		T20			7:35-9:15 P.M.	Tu	Ag 154	Staff
					4:00-4:50	M W F	Browne	Staff
					7:35-9:15 P.M.	Tu	Ag 224	Staff
					4:00-4:50	M W F	Browne	Staff
				T20	7:35-9:15 P.M.	Tu	Ag 154	Staff
					9:00-9:50	MTuWThF	Ag 154	Staff
					8:00-8:50	MTuWThF	Ag 154	Staff
		T21			2:00-2:50	MTuWThF	Ag 154	Staff
			21		1:00-1:50	MTuWThF	Ag 154	Staff
					4:00-4:50	MTuWThF	Ag 154	Staff
			22		4:00-4:50	MTuWThF	Ag 154	Staff

Physical Geography

101-5

22	22	7:35-9:00 P.M.	M	WTh	Ag 154	Staff
		6:00-7:25 P.M.	M	WTh	Ag 154	Staff
23		4:00-4:50	MTuWThF		Ag 154	Staff
	T23	9:00-9:50	MTuWThF		Ag 224	Staff
24		6:00-7:25 P.M.	M	WTh	Ag 224	Staff
1		1:00-1:50	M	W F	Ag 166	Mr. Schmudde
	1	12:00-12:50	Tu	Th	Ag 144	Staff
		1:00-1:50	M	W F	Ag 166	Mr. Schmudde
		12:00-12:50	Tu	Th	Ag 144	Staff
	1	9:00-9:50	M	W F	Ag 166	Mr. Schmudde
		9:00-9:50	Tu	Th	Ag 144	Staff
2		1:00-1:50	M	W F	Ag 166	Mr. Schmudde
	2	1:00-1:50	Tu	Th	Ag 144	Staff
		9:00-9:50	M	W F	Ag 166	Mr. Schmudde
		12:00-12:50	Tu	Th	Ag 144	Staff
3		1:00-1:50	M	W F	Ag 166	Mr. Schmudde
	3	4:00-4:50	Tu	Th	Ag 144	Staff
		1:00-1:50	M	W F	Ag 166	Mr. Schmudde
	3	3:00-3:50	Tu	Th	Ag 144	Staff
		9:00-9:50	M	W F	Ag 166	Mr. Schmudde
	3	3:00-3:50	Tu	Th	Ag 144	Staff

Economic Geography

210-4 100

Economic Geography (for business students)

211-5

1	1	1:00-1:50	MTu	ThF	Ag 224	Mr. Stafford
		11:00-11:50	MTu	ThF	Ag 224	Mr. Stafford
1		3:00-3:50	M	W F	LS 133	Mr. Thomas
		12:00-12:50	Tu	Th	Ag 224	Staff
	1	11:00-11:50	M	W F	LS 133	Mr. Thomas
		11:00-11:50	Tu	Th	Ag 224	Staff
	1	3:00-3:50	M	W F	Browne	Mr. Thomas
		12:00-12:50	Tu	Th	Ag 224	Staff
2		3:00-3:50	M	W F	LS 133	Mr. Thomas
		1:00-1:50	Tu	Th	Ag 224	Staff
	2	11:00-11:50	M	W F	LS 133	Mr. Thomas
		12:00-12:50	Tu	Th	Ag 154	Staff
		3:00-3:50	M	W F	Ag 154	Mr. Thomas
	2	2:00-2:50	Tu	Th	Browne	Staff
		3:00-3:50	M	W F	LS 133	Mr. Thomas
3		3:00-3:50	Tu	Th	Ag 154	Staff
	3	11:00-11:50	M	W F	LS 133	Mr. Thomas
		12:00-12:50	Tu	Th	Ag 224	Staff

Teaching of Geography in the Junior
and Senior High Schools

	342-4	100	1	1:00-1:50	MTu	ThF	Ag 154	Miss Krause
The Soviet Union	402-4	100	1	2:00-2:50	MTu	ThF	Ag 148	Mr. Velikonja
Agricultural Geography	404-4	210 or 211	1	4:00-4:50	MTuW	F	Ag 148	Staff
Manufacturing Geography	405-4	210 or 211		1	MTu	ThF	Ag 148	Mr. Stafford
Trade and Transportation	406-4	210 or 211	1	8:00-8:50	MTuW	F	Ag 148	Mr. Thomas
Regional Climatology	407-4	100	1	2:00-2:50	MTu	ThF	Ag 144	Mr. Cunningham
Urban Geography	411-4	100	1	1:00-1:50	MTuW	F	Ag 148	Mr. Thomas
Geography of the Caribbean Lands	413-4	100		8:00-8:50	MTu	ThF	Ag 224	Staff
Cartography	416-4	100	1	3:00-4:50	M	Th	Ag 195	Mr. Beveridge
Air Photo Interpretation	417-3	100	1	3:00-4:50	M	W	Ag 120	Mr. Zelinsky
Geography of Africa	420-4	100	1	1:00-1:50	MTu	ThF	Ag 223	Mr. Niddrie
Geomorphology ¹	431-4	100	Tl	9:00-9:50	M	WTh	Ag 174	Staff
Geography of Landforms	435-4	101	1	9:00-9:50	MTuW	F	Ag 195	Staff
Plant Geography ²	436-3	101	Tl	8:00-8:50	Tu	ThF	Ag 144	Mr. Schmudde
Readings in Geography	440-1 to 4	100	1	To be arranged			LS 313	Mr. Ashby
Political Geography	444-4	100	1	11:00-11:50	MTu	ThF	Ag 148	Staff
Geography of Population	455-4	210	1	11:00-11:50	MTu	ThF	Ag 148	Mr. Velikonja
Urban Planning ³	470-4	411	1	9:00-11:50			Ag 224	Mr. Zelinsky
								Mr. Thomas
								and Mr. Winter
Field Methods	500-4		1	6:30-8:30 P.M.	M	Th	Ag 148	Mr. Schmudde
Library Research and Thesis Writing	501-4		1	6:30-8:30 P.M.	M	Th	Ag 148	Mr. Zelinsky
Philosophy of Geography	511-4			6:30-8:30 P.M.	M	Th	Ag 148	Staff
Seminar: Physical Geography	520-4		1	10:00-11:50	W	F	Ag 144	Staff
Seminar: Economic Geography	521-4		1	9:00-10:50	W	F	Ag 148	Mr. Stafford
Seminar: Regional Geography	522-4		1	9:00-10:50	W	F	Ag 146	Mr. Cunningham
Seminar: Cartography	523-4		1	1:00-2:50	M	Th	Ag 195	Mr. Beveridge
Seminar: Cultural Geography	524-4		Tl	10:00-11:50	W	F	Ag 146	Mr. Velikonja
Independent Study in Geography	530-1 to 4		1	10:00-11:50	W	F	Ag 150	Mr. Zelinsky
Thesis	599-3 to 6		1	To be arranged				Staff
			1	To be arranged				Staff

¹ Cross-listed with Geology.

² Cross-listed with Botany.

³ Cross-listed with Government.

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor						
GEOLOGY (GEOL)															
Principles of Geology	100-4		1	1	2:00-2:50	M	W	F	Ag 166	Mr. Amos					
					2:00-3:50	Tu	W		Ag 174	Mr. Amos					
					2:00-2:50	M	W	F	Ag 168	Mr. Harris					
					2:00-3:50	Tu	W		Ag 174	Mr. Harris					
					2:00-2:50	M	W	F	Ag 166	Mr. Amos					
					2:00-3:50		Th		Ag 174	Mr. Amos					
					2:00-2:50	M	W	F	Ag 166	Mr. Amos					
					12:00-1:50	Tu			Ag 170	Mr. Amos					
Physical Geology	220-5	100	1		11:00-11:50	MTuW		F	Ag 116	Mr. Harris					
					11:00-12:50		Th		Ag 171	Mr. Harris					
					11:00-11:50	MTuW		F	Ag 214	Mr. Bell					
					11:00-12:50		Th		Ag 171	Mr. Bell					
					11:00-11:50	MTuW		F	Ag 116	Mr. Harris					
					12:00-1:50		W		Ag 171	Mr. Harris					
					11:00-11:50	MTuW		F	Ag 214	Mr. Bell					
					12:00-1:50		W		Ag 171	Mr. Bell					
Historical Geology	221-5	100	1		9:00-9:50	MTuW		F	Ag 170	Mr. Nicol					
					8:00-9:50		Th		Ag 170	Mr. Nicol					
					Structural Geology	302-4	220	1		8:00-8:50	MTu		Th	Ag 180	Mr. Amos
										8:00-9:50		F		Ag 181	Mr. Amos
12:00-2:50		Tu	Th	T 107						Mr. Bloss					
2:00-4:50	M	W		Ag 167						Mr. Bloss					
1:00-3:50	Tu	Th		Ag 167						Mr. Bloss					
11:00-11:50	M	ThF		Ag 180						Mr. Amos					
10:00-11:50		W		Ag 180						Mr. Amos					
12:00-12:50	MTu		Th	Ag 180						Mr. Amos					
12:00-1:50		F		Ag 180	Mr. Amos										
Advanced General Geology Interpretation Geologic Maps and Air Photos	401-4 405-3	302 302, 431	1 1		4:00-4:50	MTuWTh			Ag 170	Mr. Harris					
					9:00-9:50		W		Ag 195	Mr. Harris					
					8:00-9:50		Tu	F	Ag 195	Mr. Harris					
					11:00-11:50	MTuW			Ag 174	Mr. Harris					
Stratigraphy and Sedimentation	410-4	221	1		10:00-11:50		F		Ag 174	Mr. Harris					

Optical Mineralogy	415-4	311	1	8:00-9:50	Tu WThF	T 107	Mr. Bloss
Geology of Petroleum I	420-3	220	1	1:00-1:50	M F	Ag 174	Mr. Bell
Geology of Petroleum II	421-3		1	12:00-1:50	M W	Ag 174	Mr. Bell
Geology of Petroleum III	422-3			1:00-1:50	M F	Ag 174	Mr. Bell
Invertebrate Paleontology I	425-5	221	1	12:00-1:50	M W	Ag 174	Mr. Bell
Invertebrate Paleontology II	426-4	425	1	11:00-11:50	MTu ThF	Ag 170	Mr. Nicol
Invertebrate Paleontology III	427-4	425		10:00-11:50	M W	Ag 170	Mr. Nicol
Micropaleontology	428-4	425, 426	T1	12:00-1:50	MTu Th	Ag 170	Mr. Nicol
Geomorphology	431-4	220	1	9:00-9:50	M WTh	Ag 170	Mr. Nicol
Independent Study	440-1 to 4	Adv. Stand.	1	3:00-3:50	Tu	T 119	Mr. Nicol
			1	9:00-9:50	M F	T 119	Mr. Nicol
			1	9:00-10:50	M WTh	Ag 174	Mr. Niddrie
			1	8:00-11:50	F S	Ag 195	Mr. Niddrie
							Staff
Stratigraphy (Cenozoic)	512-3	425	1	4:00-4:50	Tu Th	Ag 170	Mr. Nicol
Mineral Deposits (Principles)	515-4		1	3:00-4:50	M F	Ag 170	Mr. Nicol
Igneous Petrology	520-4	415	1	8:00-8:50	M WTh	Ag 180	Mr. Amos
Metamorphic Petrology	521-4	415	1	1:00-4:50	Tu Th	Ag 180	Mr. Amos
Sedimentary Petrology	522-4	415	1	1:00-3:50	M W	T 107	Mr. Bloss
Research	541-1 to 4		1	4:00-4:50	M W F	Ag 181	Mr. Amos
Thesis	599-1 to 9		1	3:00-4:50	Th	Ag 181	Mr. Amos
			1	2:00-4:50	M W	T 107	Mr. Bloss
			1	To be arranged			Staff
			1	To be arranged			Staff
GOVERNMENT (GOVT)							
Problems of American Democracy	101-5		1	800-8:50	MTu WThF	M 201	Staff
			2	8:00-8:50	MTu WTh S	HEc 301	Staff
			3	800-8:50	MTu WThF	M 203B	Staff
			4	9:00-9:50	MTu WThF	M 201	Staff
			5	9:00-9:50	MTu WTh S	HEc 301	Staff
			6	11:00-11:50	MTu WThF	M 201	Staff
			7	11:00-11:50	MTu WTh S	HEc 301	Staff

Introduction to American Foreign Policy	243-3	1	1	11:00-11:50 12:00-12:50	M W F M W F	HEc 303 HEc 303	Mr. Klingberg Mr. Landecker
American Government	300-4	1	1	8:00-8:50 2:00-2:50 2:00-2:50 11:00-11:50 9:00-11:50 To be arranged 10:00-10:50 11:00-11:50 1:00-1:50 1:00-1:50	MTu ThF MTuWTh MTu ThF MTuWThF S W F MTu Th MTuWThF M W F	HEc 303 HEc 303 HEc 301 HEc 303 M 201 M 201 M 202 M 202 M 106	Mr. Sappenfield Mr. Nelson Mr. Nelson Mr. Alexander Mr. Alexander Mr. Howards Mr. Kenney Mr. Kenney Mr. Nigro Mr. Hanson
Development of the American Constitution	305-5	1	1	9:00-9:50 12:00-12:50 11:00-11:50 2:00-2:50 9:00-9:50 2:00-2:50 12:00-12:50 2:00-2:50 12:00-12:50 10:00-10:50	MTu Th M W F M WTh M WTh MTu ThF M W F MTu F MTuWThF MTu Th W F	HEc 303 M 202 Wh 107 Wh 107 M 106 HEc 303 M 106 M 202 M 202 HEc 301	Mr. Morton Mr. Jacobini Mr. Klingberg Mr. Klingberg Mr. Jacobini Staff Staff Mr. Hardenbergh Mr. Morton Mr. Rendleman
Problems in American Foreign Policy	371-4	1	1	12:00-12:50	MTu Th	HEc 303	Mr. Kenney
Political Parties II	379-3	1	1	3:00-3:50	M W F	M 108	Mr. Hanson
Principles of Comparative Government	380-3	1	1	9:00-9:50	Tu Th S	M 106	Mr. Edelman
Comparative Government: Latin American	390-5	1	1	9:00-10:50	W F	M 202	Staff
Government and Law	392-3	1	1	8:00-8:50	MTuWThF	M 108	Mr. Nigro
	398-2	1	1	3:00-3:50	MTuWTh	M 214	Mr. Diefenback
		1	1	11:00-11:50	MTu ThF	M 108	Mr. Hardenbergh
Pressure Groups and Politics	420-3	1	1	12:00-12:50	MTu Th	M 108	Mr. Kamarasy
Government and Natural Resources	432-3	1	1	3:00-3:50	M W F	M 108	Mr. Kamarasy
Government and Labor	436-3	1	1	9:00-9:50	Tu Th S	M 106	Mr. Edelman
Social Welfare Legislation	438-4	1	1	9:00-10:50	W F	M 202	Staff
Public Personnel Administration	440-5	1	1	8:00-8:50	MTuWThF	M 108	Mr. Nigro
Philosophy of Politics	441-4	1	1	3:00-3:50	MTuWTh	M 214	Mr. Diefenback
Government and Politics of Sub-Sahara Africa	452-4	1	1	11:00-11:50	MTu ThF	M 108	Mr. Hardenbergh
Soviet Russia and the Communist States of Eastern Europe	453-4	1	1	12:00-12:50	MTu ThF	M 108	Mr. Kamarasy
Major Governments of Western and Central Europe	455-4	1	1	4:00-4:50	MTuWTh	M 108	Mr. Kamarasy
Great Britain and the British Empire	456-4	1	1	1:00-1:50	MTu ThF	M 108	Mr. Hardenbergh
Government and Politics of the Far East	459-4	1	1	8:00-8:50	MTu ThF	M 106	Mr. Jacobini
Government and Politics of South Asia	460-4	1	1	8:00-8:50	MTu ThF	M 108	Mr. Hardenbergh

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
GOVERNMENT (GOVT) (Continued)								
Administrative Organizations	462-3	360	1		9:00-9:50	MTu Th	M 108	Mr. Hanson
Problems of Executive Management	463-3	360		1	9:00-9:50	MTu Th	M 108	Mr. Nigro
Regulatory Administration	464-3	360			4:00-4:50	M W F	M 108	Mr. Hanson
State Government and Administration	466-3			1	1:00-1:50	M W F	M 202	Mr. Howards
Municipal Government and Administration	467-3	232	1		4:00-4:50	M W F	M 106	Mr. Winter
County Government in the United States	468-3	232	1		2:00-2:50	M W F	M 106	Mr. Howards
Administration of State and Local Finance	469-3	232		1	1:00-1:50	M W F	M 202	Mr. Howards
Urban Planning	470-4	Consent of Dept.		1	9:00-11:30	S	M 108	Mr. Winter
International Government	472-4	370		1	2:00-2:50	MTuWTh	M 108	Staff
International Law	475-4	370			3:00-3:50	MTuWTh	HEc 303	Mr. Jacobi
International Politics	478-4	370	1		8:00-8:50	MTu ThF	M 108	Mr. Jacobi
The Pacific and the Far East	480-4	370	1		1:00-1:50	MTuWTh	M 108	Mr. Jacobi
American Political Ideas	487-4	305 or 355		1	8:00-8:50	MTu ThF	HEc 303	Miss Ridgway
Recent Political Theory I	488-3	305 or 390	1		9:00-10:50	W	M 106	Mr. Morton
Recent Political Theory II	489-3	385 or 390		1	10:00-10:50	F	M 106	Mr. Morton
Recent Political Theory III	490-3	385 or 390		1	9:00-9:50	MTu Th	M 202	Mr. Morton
Constitutional Law I	495-4	231		1	9:00-9:50	MTu Th	M 108	Mr. Morton
Constitutional Law II	496-4	231		1	3:00-3:50	MTuWTh	M 108	Mr. Nelson
Administrative Law	497-4	360		1	3:00-4:50	Tu Th	M 202	Mr. Nelson
Jurisprudence (Theory of Law)	498-4	231		1	3:00-4:50	Tu Th	M 202	Mr. Winter
Research Methods	499-2		1		11:00-11:50	MTu ThF	M 106	Mr. Jacobi
				1	3:00-4:50	Th	M 106	Mr. Turner
Seminar: Contemporary Legislation	501-3	340	1		9:00-11:30	S	HEc 303	Mr. Alexander
Seminar: American Governmental Problems	502-3	Consent of Dept.		1	11:00-11:50	M W F	M 106	Miss Ridgeway
Seminar: Pressure Groups	503-3	420		1	9:00-10:50	W	M 108	Mr. Kenney
Seminar: Political Parties	505-3	380	1		10:00-10:50	F	M 108	Mr. Kenney
Seminar: International Relations	508-4	370		1	2:00-4:50	Tu	M 106	Mr. Berdahl
Seminar: International Organization	509-3	472		1	12:00-12:50	MTuWTh	M 108	Mr. Berdahl
Seminar: State Governments	510-3	466		1	4:00-4:50	M W F	HEc 303	Mr. Berdahl
Seminar: Local Governments	511-3	467	1		11:00-11:50	M W F	M 108	Mr. Howards
Seminar: Public Administration	512-4	360		1	4:00-4:50	M W F	M 108	Mr. Winter
Seminar: Political Theory	517-3			1	10:00-11:50	W F	M 202	Mr. Nigro
				1	9:00-11:30	S	HEc 303	Mr. Morton

Seminar: American Foreign Policy	520-4	1	1	1	9:00-10:50	W	F	HEc 303	Mr. Klingberg
Readings in Government	521-1 to 6	1	1	1	To be arranged				Mr. Alexander
Seminar: County Government	526-3	1	1	1	2:00-2:50	M	F	M 108	Mr. Howards
Internship in Public Affairs	530-4 to 12	1	1	1	To be arranged				Staff
Individual Research	595-2 to 4	1	1	1	To be arranged				Mr. Kenney
Teaching Government	598A-1	1	1	1	To be arranged				Mr. Kenney
Teaching Government	598B-1	1	1	1	To be arranged				Mr. Kenney
Teaching Government	598C-1	1	1	1	To be arranged				Staff
Thesis	599-2 to 9	1	1	1	To be arranged				Staff
Dissertation	600-2 to 12	1	1	1	To be arranged				Staff

¹ Open to Thompson Point residents only.
² Cross-listed with Air Science 353A.
³ Cross-listed with Economics.
⁴ Cross-listed with Philosophy.

GUIDANCE (GUID)

Educational Psychology	305-4	Psych 201	1	1	1	8:00-8:50	MTu	ThF	HEc 206	Mr. Skinner
			2	2	2	9:00-9:50	TuWThF		HEc 102	Mr. Orton
			3	3	3	11:00-11:50	TuWThF		P 111	Mrs. Parker
			4	4	4	11:00-11:50	TuWThF		HEc 206	Mrs. Parker
			5	5	5	12:00-12:50	MTuWTh		HEc 102	Mr. Shafer
			6	6	6	1:00-1:50	MTuWTh	A 207		Mr. Colgan
			7	7	7	5:45-7:25 P.M.	M	W	HEc 102	Mrs. Josse
			8	8	8	5:45-7:25 P.M.	Tu	Th	HEc 102	Mr. Hasan
			9	9	9	2:00-2:50	MTu	ThF	HEc 206	Staff
			10	10	10	3:00-3:50	M	WThF	HEc 201	Staff
			11	11	11	4:00-4:50	M	WThF	HEc 102	Staff
			12	12	12	7:35-9:15 P.M.	M	W	HEc 102	Staff
						7:35-9:15 P.M.	Tu	Th	HEc 102	Staff
Mental Hygiene	412-4	305	1	1	1	6:30-9:00 P.M.	Tu		HEc 206	Mr. Phelps
						Plus 4 extra sessions				
			2			8:00-8:50	MTuWTh		HEc H18	Mr. Phelps
				2		8:00-8:50	MTuWTh		HEc 118	Mr. Phelps
Educational Statistics	420-4	305	1	1	1	6:30-9:00 P.M.	M		A 207	Mr. Fitzpatrick
						Plus 4 extra sessions				
			2			2:00-2:50	MTu	ThF	M 210	Mr. Fitzpatrick

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
GUIDANCE (GUID) (Continued)									
Educational Measurements I (General) (Elementary)	422-4	305	1	1	1	6:30-9:00 P.M. Plus 4 extra sessions	Tu	HEc 202	Mrs. Parker
(Secondary)			2	2	2	9:00-9:50	TuWThF	HEc 206	Mr. Gardner
			T3	T3	T3	4:00-4:50	TuWThF	HEc 201	Staff
			4	4	4	9:00-11:30	S	HEc 201	Mr. Russell
			T5	T5	T5	9:00-11:30	S	HEc 118	Staff
Basic Principles of Guidance	442-4	305	1	1	1	6:30-9:00 P.M. Plus 4 extra sessions	W	HEc 206	Mrs. Parker
			T2	T2	T2	6:30-9:00 P.M. Plus 4 extra sessions	W	A 207	Staff
Seminar on a Selected Topic (Placement Training-Blind) (Six weeks)	481-6	Consent of Dept.	1	1	1	8:30-4:30	MTuWThF		Mr. Viecei
Seminar on a Selected Topic	481-2	Consent of Dept.	2	2	2	To be arranged			Mr. Doleys
			3	3	3	To be arranged			Mr. Doleys
			4	4	4	9:00-11:30	S	Ag 146	Mr. Shaffel
Seminar on a Selected Topic (Social Ramp and Role Playing)	481-4								
Special Research Problems	501-2 to 6	Consent of Dept.	1	1	1	To be arranged			Mr. Phelps
Educational Implications of Learning Theories	511-4	Consent of Dept.	1	1	1	4:00-4:50	MTuWTh	HEc 206	Mr. Orton
Psychological Aspects of Education	515-4	Consent of Dept.	1	1	1	6:30-9:00 P.M.	Tu	A 207	Mr. Skinner
Advanced Educational Statistics	520-4	420	1	1	1	2:00-2:50	MTu ThF	M 304	Mr. Fitzpatrick
Design of Experiments in Education	521-4	520	1	1	1	2:00-2:50	MTu ThF	M 304	Mr. Fitzpatrick
Educational Measurements II	522-4	420, 422	1	1	1	3:00-3:50	MTuWTh	T 41 R 104	Mr. Orton
School Behavior Problems	525-4	412	1	1	1	6:30-9:00 P.M.	M	Ag 146	Mr. Talman
Techniques of Individual Guidance	526-4	525	1	1	1	6:30-9:00 P.M.	M	Ag 146	Mr. Talman
Advanced Guidance of the Individual	528-4	526	1	1	1	6:30-9:00 P.M.	M	HEc 306	Mr. Thalman
Introduction to Individual Measurement	535-4	522	1	1	1	1:00-2:50	Tu Th	Ag 214	Mr. Russell
						1:00-2:50	Tu Th	M 203B	Mr. Russell
Appraisal of Intelligence (Children)	536A-4	522			1	1:00-2:50	Tu Th	T 41 R 101	Mr. Russell
Appraisal of Intelligence (Adolescents)	536B-4	522			1	1:00-2:50	Tu Th	T 41 R 101	Mr. Russell
Counseling Theory and Practice I	537-4	442, 522	1	1	1	9:00-11:30	S	A 207	Mr. Meek
			2	2	2	6:30-9:00 P.M.	W	Ag 150	Mr. Meek
						10:00-11:50	W	Ag 116	Mr. Renzaglia
			T3	T3	T3	9:00-11:30	S	Ag 144	Staff
			T4	T4	T4	6:30-9:00 P.M.	W	Ag 144	Staff
Occupational Information and Guidance ¹	541-4	442			1	9:00-11:30	S	T 26 R 110	Mr. Ramp

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
HEALTH EDUCATION (H ED) (Continued)									
Principles and Foundations of Health Education	205-4		1	1		9:00-9:50 1:00-1:50 2:00-2:50	M WThF MTu ThF MTuWTh	M 104 M 104 M 104	Mr. Richardson Mr. Richardson Mr. Richardson
Communicable Disease Driver Education and Training	300-3 302S-4	Ill. Dr. License	1 1	1 1		6:30-9:00 P.M. 8:00-8:50	W MTu ThF	M 105 T 85	Dr. Cassel Mr. Aaron or Mr. Bridges
Home Nursing	310-4			1		2:00-3:50	Tu Th	TBA	Miss Denny
Child Development	311-4			1		3:00-3:50	MTuWTh	M 104	Mr. Richardson
Emotional Health	312-4		1	1		1:00-1:50	MTu ThF	M 104	Mr. Richardson
Introduction to Safety Education	313S-4		1	1		9:00-9:50	MTu ThF	T 85	Mr. Bridges
Methods and Materials in Safety Education	323S-4		1	1		1:00-1:50	MTu Th	T 85	Mr. Aaron
Community Health Problems	325-3		1			9:00-9:50	MTu Th	HEc 118	Mr. Grissom
First Aid	334S-4		1	1		11:00-11:50	MTu ThF	T 85	Mr. Bridges
Methods and Materials in Elementary Health Education	350-4		T2 1	T2 1		12:00-12:50 11:00-11:50	MTu ThF MTuW F	T 85 M 104	Mr. Aaron Mr. LeFevre
Introduction to Public Health	355-4		2	2		3:00-3:50	MTuWTh	M 104	Miss Phillips
Public Health II	356-5 ^a	H. Sci. Stud. Only	1 1	1 1		4:00-4:50 To be arranged	MTuW F	M 105	Dr. Cassel Mr. Richardson
Health Appraisal of School Children	400-4			1		6:30-9:00 P.M.	M	M 105	Mr. LeFevre
Methods and Materials in Social Hygiene	405-3			1		9:00-9:50	MTu W	M 202	Mr. Boydston
Safe and Healthful Living Outdoors	413S-4					9:00-9:50		M 108	Mr. Boydston
Methods and Materials in Driver Education	443S-4	334S and 10 hrs. Biol. Sc.	1	1		4:00-4:50 6:30-9:00 P.M.	MTu ThF M	T 85 T 85	Staff Mr. Aaron or Mr. Bridges
Methods and Materials in Secondary School Health Education	460-4			1		9:00-9:50	MTuWTh	M 104	Mr. Boydston
Organization and Administration of the School Health Program	471-4					9:00-9:50	MTu Th	HEc 306	Mr. Vaughan
Traffic Law Enforcement and Planning	475S-3					9:00-9:50	W	HEc 204	Mr. Vaughan
Health Education Aspects of Environmental Sanitation	488-4		1			6:30-9:00 P.M.	Tu	M 104	Mr. LeFevre
				1		6:30-9:00 P.M.	Tu	T 85	Mr. Aaron
				1		6:30-9:00 P.M.	M	M 105	Mr. Grissom

Introduction to Vital Statistics	489-4	1	1	6:30-9:00 P.M.	Tu	M 105	Mr. Richardson
Field Work in School and Community Health	490-4 to 8	1	1	To be arranged			Mr. Grissom
Community Organization for Health Education	500-4	1		6:30-9:00 P.M.	W	M 104	Mr. Grissom
Construction of Curriculum in Health Education	510-4	1	1	9:00-11:30	S	T 85	Mr. Bridges
Review of Current Literature in Health Education	515-4		1	6:30-9:00 P.M.	Th	M 105	Staff
Special Projects in Health Education	520-4 to 6	1	1	To be arranged			
Organization and Administration and Supervision of Safety Education	525S-4	1		6:30-9:00 P.M.	Tu	T 85	Mr. Boydston
Problems in Research and Accident Prevention	530S-4	Tl	1	6:30-9:00 P.M.	Tu	T 85	Mr. Aaron
Human Conservation I	533-3	1		6:30-9:00 P.M.	Th	M 105	Staff
Human Conservation II	534-3	1	1	6:30-9:00 P.M.	Th	M 105	Mr. Richardson
							and Mr. Grissom
							Mr. Richardson and Mr. Grissom

HIGHER EDUCATION (HIED)

Careers-College Teaching	401-2	1	1	6:30-8:20 P.M.	M	HEc 118	Mr. Grinnell
Careers-College Student Personnel	402-2	1		3:00-4:50	Th	M 209	Mr. Trueblood
Careers-Administration	403-2	1	1	To be arranged			Mr. Hand
Higher Education in the United States	410-4	1		3:00-4:50	M	T 41 R 102	Mr. Myers
				6:30-9:00 P.M.	Tu	M 108	
				Plus 4 extra sessions			
Functions and Organization of College Student Personnel	441-4	1	1	10:00-11:50	W	Ag 168	Mr. Trueblood
Personnel Work with College Student Groups	446-4	1		10:00-11:50	W	Ag 150	Mr. Trueblood
Orientation to College Teaching	450-1	1 ¹		10:00-10:50	M	T 41 R 101	Mr. Hand
		2 ¹		10:00-10:50	Tu	T 41 R 101	Mr. Hand
		3		10:00-10:50	W	M 108	Mr. Hand
		4		7:00-7:50 P.M.	W	M 203B	Mr. Hand
		5		10:00-10:50	Th	T 41 R 101	Mr. Hand
Administrative Practices in Higher Education	476-4	1	1	1:00-1:50	MTuWTh	T 40 R 101	Mr. Davis
Principles of College Staff Management	477-2	1		8:00-9:50	W	M 106	Mr. Sappenfield

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
HIGHER EDUCATION (HIED) (Continued)									
History and Philosophy of Higher Education	511-4				1	6:30-9:00 P.M.	Th	HEc 118	Mr. Axtelle
Higher Education in Nations of World	512-4				1	6:30-9:00 P.M.	M	M 112	Staff
Seminar in Higher Education—College Teaching	521a-2		1			To be arranged			Mr. Myers
Seminar in Higher Education—Student Values	521b-2				1	3:00-4:50	Th	T 41 R 101	Mr. Trueblood
Seminar in Higher Education—Housing	521c-2					8:00-9:50	Th	M 206	Mr. Trueblood
Seminar in Higher Education—Staff Personnel	521e-2		1		1	8:00-9:50	W	HEc 118	Mr. Sappenfield
Seminar in Higher Education—Finance	521f-2			1		7:00-8:50 P.M.	Tu	M 202	Mr. Hand
Seminar in Higher Education—Junior College	521g-2				1	4:00-4:50	W	T 41 R 103	Mr. Samford
Seminar in Higher Education—Sociology of Higher Education	521m-2				1	To be arranged			Mr. Queen
Seminar in Higher Education—Continuing Education	521s-2			1		7:00-8:25 P.M.	W	T 41 R 103	Mr. Baurenfiend
Seminar in Higher Education—The Technical Institute	521y-2			1		6:30-8:20 P.M.	Tu	T 41 R 104	Mr. Humble
Readings—College Teaching	522a-1 to 6		1	1		To be arranged			Mr. Hand
Readings—College Student Personnel	522b-1 to 6		1	1		To be arranged			Mr. Trueblood
Readings—Administration	522c-1 to 6		1	1		To be arranged			Mr. Hand
Internship—College Teaching	523a-1 to 12		1	1		To be arranged			Mr. Hand
Internship—College Student Personnel	523b-1 to 12		1	1		To be arranged			Mr. Trueblood
Internship—Administration	523c-1 to 12		1	1		To be arranged			Mr. Hand
Curriculum Design and Development	551-4			1		6:30-9:00 P.M.	W	HEc 118	Mr. Tenney
Junior College	565-4			1		9:00-11:30	S	T 40 R 101	Mr. Samford
Financing Higher Education	578-4				1	6:30-9:00 P.M.	W	M 112	Mr. Hand

¹ For those who have had adequate backgrounds of professional education courses.

HISTORY (HIST)

Survey of Western Civilization	101-3		1			11:00-11:50	Tu	Th	Browne	Mr. Rothenberg
(History 101 the fall quarter is taught in a lecture section meeting twice a week and in 12 discussion groups each meeting once a week. It is essential that each student be enrolled in both the lecture section and in one of the discussion groups.)										
(Discussion Group)	101A-0		1			9:00-9:50		F	M 209	Staff

Survey of Western Civilization	101-3	2	10:00-10:50	F	M 206	Staff
		3	12:00-12:50	F	M 207	Staff
		4	2:00-2:50	F	M 206	Staff
		5	3:00-3:50	F	M 207	Staff
		6	4:00-4:50	F	M 207	Staff
		7	8:00-8:50	S	M 206	Staff
		8	9:00-9:50	S	M 206	Staff
		9	10:00-10:50	S	M 206	Staff
		10	11:00-11:50	S	M 206	Staff
		11	1:00-1:50	Th	M 206	Staff
		12	2:00-2:50	Th	M 206	Staff
Survey of Western Civilization	102-3		7:35-9:00	Tu	M 207	Staff
		1	8:00-8:50	ThF	M 207	Staff
			11:00-11:50	Tu	M 207	Staff
		1		Th	Browne	Mr. Rothenberg

(History 102 the winter quarter is taught in a lecture section meeting twice a week and in 12 discussion groups each meeting once a week. It is essential that each student be enrolled in both the lecture section and in one of the discussion groups.)

(Discussion Groups)	102A-0	1	9:00-9:50	F	M 206	Staff
		2	10:00-10:50	F	M 206	Staff
		3	12:00-12:50	F	M 207	Staff
		4	2:00-2:50	F	M 206	Staff
		5	3:00-3:50	F	M 207	Staff
		6	4:00-4:50	F	M 206	Staff
		7	8:00-8:50	S	M 206	Staff
		8	9:00-9:50	S	M 206	Staff
		9	10:00-10:50	S	M 206	Staff
		10	11:00-11:50	S	M 206	Staff
		11	1:00-1:50	Th	M 206	Staff
		12	2:00-2:50	Th	M 206	Staff
Survey of Western Civilization	102-3		7:35-9:00	Tu	M 207	Staff
		1	8:00-8:50	Tu	M 207	Staff
			11:00-11:50	Tu	M 207	Staff
		1		Th	Browne.	Mr. Rothenberg

(History 103 the spring quarter is taught in a lecture section meeting twice a week and in 12 discussion groups each meeting once a week. It is essential that each student be enrolled in both the lecture section and in one of the discussion groups.)

(Discussion Group)	103A-0	1	9:00-9:50	F	M 206	Staff
		2	10:00-10:50	F	M 206	Staff
		3	12:00-12:50	F	M 207	Staff
		4	2:00-2:50	F	M 206	Staff
		5	3:00-3:50	F	M 207	Staff
		6	4:00-4:50	F	M 206	Staff
		7	8:00-8:50	S	M 206	Staff

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No. F W S	Time	Days	Bldg. No. Room No.	Instructor
HISTORY (HIST) (Continued)							
(Discussion Group)	103A-0						
			8	9:00-9:50	S	M 206	Staff
			9	10:00-10:50	S	M 206	Staff
			10	11:00-11:50	S	M 206	Staff
			11	1:00-1:50	Th	M 206	Staff
			12	2:00-2:50	Th	M 206	Staff
Survey of Western Civilization	103-3						
			1	6:00-7:25	Tu	M 206	Staff
			2	4:00-4:50	Tu	M 206	Staff
				4:00-4:50	W F	M 207	Staff
The United States to 1865	201-5		1	12:00-12:50	TuWThF	Browne	Mr. Ammon
			2	6:00-6:50	M	M 207	Mr. Pitkin
				6:00-7:15 P.M.	Tu	M 207	Mr. Pitkin
(History 201 the fall quarter is taught in two lecture sections and in 6 discussion groups. It is essential that all students enrolled in lecture section 1 be enrolled in discussion groups 1-12 and that those in lecture section 2 be enrolled in discussion groups 13-16.)							
(Discussion Group)	201A-0						
			1	11:00-11:50	Th	M 209	Staff
			2	1:00-1:50	Th	M 209	Staff
			3	3:00-3:50	Th	M 206	Staff
			4	8:00-8:50	F	M 207	Staff
			5	11:00-11:50	F	M 206	Staff
			6	8:00-8:50	S	M 209	Staff
			7	8:00-8:50	S	M 207	Staff
			8	9:00-9:50	S	M 209	Staff
			9	9:00-9:50	M	M 209	Staff
			10	12:00-12:50	M	M 209	Staff
			11	12:00-12:50	M	M 206	Staff
			12	11:00-11:50	S	M 209	Staff
			13	3:00-3:50	Th	M 207	Staff
			14	4:00-4:50	Th	M 207	Staff
			15	7:35-8:25	Th	M 209	Staff
			16	10:00-10:50	F	M 207	Staff
The United States to 1865	201-5		1	12:00-12:50	MTuWThF	M 209	Mr. Ammon
			2	6:00-7:25 P.M.	M WTh	M 209	Staff
				8:00-8:50	MTuWTh	Browne	Mr. Ammon

(History 201 the spring quarter is taught in a lecture section meeting four times a week and in 9 discussion groups each meeting once a week. It is essential that each student be enrolled in both the lecture section and in one of the discussion groups.)

(Discussion Group)	201A-0	1	8:00-8:50	F	M 209	Staff
The United States to 1865		2	11:00-11:50	F	M 206	Staff
		3	4:00-4:50	F	M 209	Staff
		4	8:00-8:50	S	M 209	Staff
		5	9:00-9:50	S	M 209	Staff
		6	9:00-9:50	M	M 209	Staff
		7	3:00-3:50	F	M 209	Staff
		8	7:35-8:25 P.M.	Th	M 206	Staff
		9	4:00-4:50	M	M 209	Staff
The United States since 1865	201-5	2	6:00-7:25 P.M.	M	WTh	M 209
	202-5	1	9:00-9:50	TuWThFS	M 214	Mr. Briggs
	2	6:00-7:25 P.M.	M	WTh	M 209	Staff
	1	8:00-8:50	MTuWTh	Ag 101		Mr. Adams
	2	12:00-12:50	TuWThF	Browne		Mr. Briggs

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
HISTORY (HIST) (Continued)								
(Discussion Group)	202A-0							
History of Warfare to 1815 History of Warfare Since 1815 The Ancient Near East History of Greece History of Rome History of Illinois	301-3		1		2:00-2:50	Th	M 209	Staff
	302-3			1	3:00-3:50	Th	M 206	Staff
	304-3				4:00-4:50	Th	M 206	Staff
	305-3				7:35-8:25 p.m.	Th	M 209	Staff
	306-3				1:00-1:50	F	M 207	Staff
	308-3	201 or 202	1		8:00-8:50	S	M 207	Staff
			6		9:00-9:50	S	M 207	Staff
			7		10:00-10:50	S	M 207	Staff
			8		11:00-11:50	S	M 207	Staff
			10		6:00-6:50 p.m.	M	M 206	Staff
Medieval History English History English History English History The Revolution and the Constitution Colonial Latin America Independent Latin America Latin America in World Affairs Introduction to Far Eastern Civilization The Far East and Modern Imperialism The Contemporary Far East History of Russia to 1905 History of Russia since 1905	301-3		1		12:00-12:50	M W F	M 206	Mr. Rothenberg
	302-3			1	12:00-12:50	M W F	M 206	Mr. Rothenberg
	304-3		1		9:00-9:50	M W F	M 206	Staff
	305-3		1		9:00-9:50	M W F	M 207	Staff
	306-3			1	9:00-9:50	M W F	M 207	Staff
	308-3	201 or 202	1	1	10:00-10:50	M W FS	M 207	Mr. Wright
			2	2	1:00-1:50	M W F	M 209	Mr. Pitkin
	311-3	101 & 102	1		2:00-2:50	MTu Th	M 209	Mr. Rothenberg
	322-4	Consent of Dept.	1		8:00-8:50	MTuW F	M 206	Mr. Cherry
	323-4	Consent of Dept.	1		8:00-8:50	MTuW F	M 206	Mr. Cherry
	324-4	Consent of Dept.		1	8:00-8:50	MTuW F	M 206	Mr. Cherry
		201	1		2:00-2:50	MTu Th	M 207	Mr. Ammon
	352-3		1		1:00-1:50	M W F	M 209	Mr. Gardiner
	353-3		1		1:00-1:50	M W F	M 209	Mr. Gardiner
	354-3			1	1:00-1:50	M W F	M 209	Mr. Gardiner
	367-3		1		9:00-9:50	Tu ThF	M 207	Mr. Kuo
368-3			1	9:00-9:50	Tu Th S	T41 R 104	Mr. Kuo	
369-3			1	9:00-9:50	Tu ThF	M 209	Mr. Kuo	
372-3	101, 102, 103		1	8:00-8:50	M W F	M 209	Mr. Kuo	
373-3	103		1	8:00-8:50	M W F	M 209	Mr. Kuo	
Civil War and Reconstruction Special Readings in History Social and Intellectual U.S. to 1830 Social and Intellectual U.S., 1830-1900	405-3	201		1	11:00-11:50	M W F	M 304	Mr. Adams
	410-2 to 5	Consent of Dept.	1	1	To be arranged			Staff
	411-3	201	1		11:00-11:50	M W F	M 209	Mr. Adams
	412-3	201	1		11:00-11:50	M W F	M 209	Mr. Adams

Social and Intellectual U.S. Since 1900	202	1	2:00-2:50	M	W	F	Mr. Briggs
The Age of the Renaissance	413-3		7:35-9:00 P.M.	Tu	Th		Mr. Rothenberg
The Age of the Reformation	415-3	1	9:00-9:50	MTu	Th		Mr. Rothenberg
The British Commonwealth of Nations	416-3		1:00-1:50	M	W	F	Mr. Cherry
English Constitutional History	417-3	1	9:00-9:50	MTu	Th		Mr. Rothenberg
The French Revolution	418-3		2:00-2:50	MTu	Th		Mr. Ammon
American Colonial History	420-3	1	4:00-4:50	M	W	F	Mr. Pitkin
Recent U.S. History, 1865-1898	425-3	1	6:30-9:00 P.M.	M			Mr. Pitkin
Recent U.S. History, 1898-1928	435-3		6:30-9:00 P.M.	M	W	F	Mr. Rothenberg
Recent U.S. History, 1928-Present	436-3	1	2:00-2:50	M	W	F	Mr. Briggs
Europe Since 1914	437-3	1	3:00-3:50	M	W	F	Mr. Briggs
Historiography	450-3		4:00-4:50	M	W	F	Mr. Kuo
Historical Research and Thesis Writing	451-3		3:00-3:50	M	W	F	Mr. Gardiner
Biography in American History	452-3	1	3:00-3:50	M	W	F	Mr. Gardiner
History of Inner-Asian Relations	454-3	1	3:00-3:50	M	W	F	Mr. Gardiner
History of Inner-Asian Relations	455-3	1	3:00-3:50	M	W	F	Mr. Gardiner
Mexico in the 19th Century	471-3		3:00-3:50	M	W	F	Mr. Gardiner
Mexico in the 20th Century	472-3		3:00-3:50	M	W	F	Mr. Gardiner
The Caribbean Area in the 20th Century	473-3	1	3:00-3:50	M	W	F	Mr. Gardiner

Seminar	500-3 to 9	1	3:00-4:15	Tu	Th		Mr. Adams
Readings in History	510-2 to 5	1	To be arranged	Tu	Th		Staff
Current U.S. History and Problems	515-3	1	3:00-4:15	Tu	Th		Mr. Pitkin
Constitutional History of U.S. and Problems	517-3	1	6:00-7:15 P.M.	Tu	Th		Mr. Briggs
England in the Age of the Glorious Revolution	518-3	1	1:00-1:50	M	W	F	Mr. Cherry
The Age of Jefferson	519-5		3:00-3:50	Tu	Th		Mr. Ammon
Individual Research	590-1 to 6	1	To be arranged				Staff
Thesis	599-3 to 9	1	To be arranged				Staff

HOME and FAMILY (H & F)

Family Living	227-3	T1	1:00-1:50	M	W	F	Staff
		1	8:00-8:50	M	W	F	Mr. Moss
		2	9:00-9:50	M	W	F	Mr. Moss
		1	6:00-7:25 P.M.	M	W	F	Mr. Moss
		T2	12:00-12:50	M	W	F	Staff
Child Development	237-3	1	2:00-2:50	Tu	Th ¹		Miss Schulz
		2	9:00-9:50	Tu	Th ²		Mr. Blum

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
HOME and FAMILY (H & F) (Continued)								
Home Economics for Men	300-3		1	1	1:00-1:50	M W F	HEc 118	Miss Crain
Home Arts and Social Usage	301-3		1	1	3:00-3:50	M W F	HEc 120	Miss Crain
				1	2:00-2:50	M W F	HEc 120	Miss Crain
Equipment	324-2			1	10:00-11:50	W	HEc 5	Miss Johnston
					10:00-10:50	F	HEc 5	Miss Johnston
				2	10:00-11:50	Tu Th	HEc 5	Miss Johnston
					11:00-11:50		HEc 5	Miss Johnston
Home Management Lectures	331-3		1		9:00-9:50	M W F	HEc 5	Miss Johnston
			2		10:00-10:50	TuW F	HEc 5	Miss Johnston
Home Management Residence	332-4	227, 331, F & N 335	1	1	To be arranged		HMgt	Miss Crain
Consumer Problems	341-4		1	1	1:00-1:50	MTuWTh	HEc 120	Mrs. Quigley
				1	3:00-3:50	M W F	HEc 120	Mrs. Quigley
Child Development Practicum	345-3	237	1	1	10:00-10:50	S	HEc 114C	Mrs. Quigley
					To be arranged ³			Miss Schulz
Family Development	366-3	Soc. 101, H&F 227 or Soc. 241	1		12:00-12:50	Tu ThF	HEc 118	and Mr. Blum
Infant Development	456-4	237 or Psc. 301		1	To be arranged		HEc 116B	Miss Schulz
Practicum in Parent-Child Study	466-2	227, 237	1		To be arranged		HEc 116B	Mr. Blum
Readings	481-2 to 6		1	1	To be arranged		Office	Staff
Trends in Consumer Problems	540-4			1	9:00-11:30	S	HEc 5	Miss Johnston
Special Problems in Equipment	572-2 to 4	324 or 424	1		To be arranged		HEc 5	Miss Johnston
Thesis	599-4		1	1	To be arranged		Office	Staff
¹ Plus two consecutive hours to be arranged between 9:00 and 12:00 on M, Tu, W, Th, or F.								
² Plus two consecutive hours to be arranged between 1:00 and 3:30 on M, Tu, W, Th, or F.								
³ Plus three laboratory hours to be arranged on M, Tu, W, Th, or F, between 9:00 and 12:00, or 1:00 and 4:00. Seminar at 4:00 on Thursday.								
HOME ECONOMICS EDUCATION (H E ED)								
Home Economics Orientation	111-2		1		10:00-10:50	Tu S	HEc 122	Mrs. Morgan
					4:00-4:50	W	HEc 119	Mrs. Quigley

[illegible]

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
INDUSTRIAL EDUCATION (I ED) (Continued)								
Machine Shop I	122-4		1	1	1:00-3:50 8:00-9:50	MTu ThF MTu ThF	T 25 R 109 T 25 R 109	Mr. Vineyard Staff
Industrial Arts Drawing I	130-4		1	1	8:00-11:50	W S		
Basic Electricity ¹	145-4		1	1	3:00-4:50 1:00-2:50	MTuWTh MTu ThF	USch 106A T 25 R 106	Staff
			1	1	1:00-2:50	MTu ThF	T 25 R 106	Mr. Culpepper
			2	2	8:00-11:50	W S	T 25 R 106	Staff
				1	8:00-9:50	MTu ThF	T 25 R 106	Staff
General Crafts	200-4		1	1	1:00-2:50	MTu ThF	T 25 R 110	Mr. Bunten
Architectural Drawing I	204-4	130	1	1	3:00-4:50	MTu ThF	USch 106A	Mr. Bunten
Machine Woodwork	212-4	112	1	1	8:00-9:50	MTu ThF	T 25 R 102	Staff
			1	1	8:00-11:50	W S	T 25 R 102	Staff
				1	3:00-4:50	MTuWTh	T 25 R 102	Mr. Pollock
Furniture Upholstering and Finishing ²	216-4		1	1	5:45-9:15 P.M.	M W	USch 105	Mr. Pollock
General Typography ³	217-4		1	1	2:00-4:50	M W	T 48 R 116	Mr. Modlin
Machine Shop II	222-4	122	1	1	8:00-9:50	MTu ThF	T 25 R 109	Mr. Vineyard
			2	1	8:00-11:50	W S	T 25 R 109	Mr. Vineyard
			1	1	11:00-12:50	MTu ThF	T 25 R 109	Mr. Vineyard
General Metals I	226-4		1	1	3:00-4:50	MTu ThF	T 25 R 107	Mr. Johnson
			1	1	1:00-2:50	MTu ThF	T 25 R 107	Mr. Johnson
				1	8:00-11:50	W S	T 25 R 107	Staff
				2	5:45-9:15 P.M.	Tu Th	T 25 R 107	Staff
Manufacturing Processes	227-4		1	1	1:00-1:50	M W F	T 25 R 107	Mr. Vineyard
Industrial Arts Drawing II	233-4	130	1	1	8:00-9:50	MTu ThF	USch 106A	Staff
Presswork I ³	271-4	217	1	1	1:00-3:50	M W	VTI Bldg 2	Mr. Brown
Plastic Materials	300-4	112	1	1	1:00-3:50	MTu ThF	T 25 R 110	Mr. Bunten
Construction Methods for Primary Teachers	302-4		1	1	8:00-9:50	MTu ThF	T 25 R 110	Mr. Shake
Diversified Crafts for Teachers and Recreational Leaders	303-4		1	1	11:00-12:50	MTu ThF	T 25 R 110	Mr. Shake
			2	2	1:00-2:50	MTu ThF	USch 114	Mr. Jenkins
				2	8:00-9:50	MTu ThF	USch 105	Staff
Architectural Drawing II	304-4	204			3:00-4:50	MTu ThF	USch 106A	Mr. Bunten
Machine Drafting	305-4	233		1	8:00-9:50	MTu ThF	USch 106A	Mr. Bunten
Industrial Arts Design	306-4	233		1	1:00-2:50	MTu ThF	T 27 R 114	Mr. Pollock
Photolithography I ³	308B-4	217	1	1	3:30-6:00	M W	Print	Mr. Brown

Furniture Construction and Cabinet Making	313-4	212	1	1:00-3:50	MTu	ThF	T 25 R 102	Mr. Pollock
Wood Pattern Making and Foundry	314-4	112	1	11:00-12:50	MTu	ThF	T 25 R 107	Mr. Johnson
General Welding I	318-4		1	5:45-9:15 P.M.	M	W	T 25 R 107	Mr. Vineyard
			1	5:45-9:15 P.M.	Tu	Th	T 25 R 107	Mr. Vineyard
			1	5:45-9:15 P.M.	M	W	T 25 R 107	Mr. Ramp
Industrial Internship	319-3	Consent of Dept.	1	To be arranged	Tu	Th	USch 105	Mr. Pollock
Cane, Reed, and Raffia Work	321-2		1	8:00-9:50	MTu	ThF	T 25 R 109	Mr. Schroeder
Machine Shop III	322-4	222	1	11:00-12:50	MTu	ThF	T 25 R 107	Mr. Johnson
Metal Crafts	324-4		1	8:00-9:50	MTu	ThF	T 25 R 109	Mr. Schroeder
Advanced Machine Shop	325-4	322	1	3:00-4:50	MTu	ThF	T 25 R 109	Mr. Schroeder
			1	1:00-3:50	MTu	ThF	T 25 R 107	Mr. Vineyard
General Welding II	328-4	318	1	5:45-9:15 P.M.	M	W	T 25 R 107	Mr. Bunten
Fundamentals of Transportation	332-4		1	9:00-9:50	MTu	ThF	USch 105	Mr. Johnson
Machine and Tool Maintenance	341-4	112, 226	1	8:00-9:50	MTu	ThF	T 25 R 107	Mr. Johnson
Painting and Finishing	342-4	112	1	1:00-3:50	MTu	ThF	T 25 R 102	Mr. Pollock
Communications Equipment	344-4	145	1	3:00-4:50	MTu	ThF	T 25 R 106	Mr. Culpepper
			1	8:00-9:50	MTu	ThF	T 25 R 106	Mr. Culpepper
Industrial Electronics	345-4	344	1	3:00-4:50	MTu	ThF	T 25 R 106	Mr. Culpepper
			1	1:00-3:50	MTu	ThF	T 25 R 106	Mr. Culpepper
Electronic Systems	346-4	345	1	3:00-4:50	MTu	ThF	T 25 R 106	Mr. Culpepper
Jig & Fixture Design I	350-4	308	1	8:00-9:50	MTu	ThF	T 27 R 114	Mr. Schroeder
Jig & Fixture Design II	351-4	350	1	8:00-9:50	MTu	ThF	T 27 R 114	Mr. Schroeder
Jig & Fixture Design III	352-4	351	1	11:00-12:50	MTu	ThF	USch	Mr. Schroeder
Special Advanced Machine Shop	360-4	325	1	3:00-4:50	MTu	ThF	T 25 R 109	Mr. Schroeder
			1	1:00-2:50	MTu	ThF	T 25 R 109	Mr. Schroeder
Industrial Safety	365-4		1	11:00-11:50	MTu	ThF	P 309	Mr. Johnson
Special Problems	430-2 to 6	Consent of Dept.	1	To be arranged				Mr. Erickson
Manual Arts Internship	435-6 to 12	Consent of Dept.	1	To be arranged				Mr. Gallington
Principles of Industrial Teaching	490-4		1	5:45-7:25 P.M.	Tu	Th	T 26 R 110	Mr. Bunten
				Plus 4 extra meetings				
Methods of Teaching Trade and Technical Subjects	491-4		1	6:00-8:50 P.M.	Th		T 26 R 110	Mr. Ramp
School Shop Planning	492-4		1	6:00-8:50 P.M.	M		T 26 R 110	Mr. Erickson
			1	Plus 4 extra meetings				
Organization and Administration of Industrial Education	494-4		1	9:00-11:50	S		T 26 110	Mr. Ramp
Occupational Analysis	495-4		1	6:00-8:50 P.M.	W		T 26 R 110	Mr. Ramp
			1	Plus 4 extra meetings				
Selection and Organization of Subject Matter	496-4		1	6:00-8:50 P.M.	Th		T 26 R 110	Mr. Ramp
				Plus 4 extra meetings				

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
INDUSTRIAL EDUCATION (IED) (Continued)								
Methods and Evaluation of Products and Procedures	502-4		1		6:00-8:50 P.M.	W	T 26 R 114	Mr. Gallington
Problems of the Co-ordinator	506-4			1	6:00-8:50 P.M.	Tu	T 26 R 110	Mr. Ramp
Research in Industrial Education	540-4			1	6:00-8:50 P.M.	M	T 26 R 110	Mr. Gallington
Occupational Information and Guidance ¹	541-4			1	9:00-11:30	S	T 26 R 110	Mr. Ramp
College Teaching of Industrial and Technical Subjects	550-4			1	6:00-8:50 P.M.	M	T 26 R 110	Mr. Gallington
Special Investigation in Industrial Education	570-2 to 4	Consent of Dept.	1	1	To be arranged			Staff
Thesis	599-1 to 9		1	1	To be arranged			Staff
¹ Cross-listed with Agricultural Industries.								
² Cross-listed with Adult Education.								
³ Cross-listed with Printing and Photography.								
⁴ Cross-listed with Guidance.								
INSTRUCTIONAL MATERIALS (I M)								
Use of Books in Libraries	100-2		1		9:00-9:50 2:00-2:50 1:00-1:50	W F Tu Th Tu Th	Lib 108 Lib 108 Lib 108	Staff Staff Staff
Instructional Materials Approach to Learning	201-2		1	1	10:00-10:50	W F	Lib 112	Staff
School Library as Information Center	306-4	201		1	12:00-12:50	TuWThF	Lib 112	Mr. Evans
School Library Technical Processes	308-4		1		2:00-2:50	TuWThF	Lib 112	Mr. Evans
				1	12:00-12:50	TuWThF	Lib 112	Mr. Evans
Research Methods	400-2		1	1	10:00-10:50	W F	Lib 108	Mr. McCoy
School Library Functions and Management	403-4		1		5:45-7:25 P.M.	Tu Th	Lib 112	Miss Fletcher
				1	1:00-1:50	TuWThF	Lib 112	Miss Fletcher
Library Materials for Children	405-4		1		8:00-8:50	MTuWTh	Lib 112	Miss Fletcher
				1	2:00-2:50	MTuWTh	Lib 112	Miss Fletcher

Library Materials for Adolescents	406-4	1	1	12:00-12:50	MTuWTh	Lib 112	Miss Fletcher
			1	8:00-8:50	MTuWTh	Lib 112	Miss Fletcher
Audio-Visual Methods in Education	417-4	1	1	11:00-11:50	MTuWTh	Lib 112	Miss Fletcher
		2	1	9:00-9:50	MTuWTh	Lib 112	Mr. Rust
		3		11:00-11:50	TuWThF	Lib 112	Mr. Evans
		4		1:00-1:50	MTuWTh	Lib 112	Mr. Butts
				7:35-9:00 P.M.	Tu Th	Lib 112	Mr. Rust
			2	11:00-11:50	MTuWTh	Lib 112	Mr. Butts
			3	3:00-3:50	TuWThF	Lib 112	Mr. Evans
			4	5:45-7:25 P.M.	Tu Th	Lib 112	Mr. Wendt
				11:00-11:50	MTuWTh	Lib 112	Mr. Evans
			2	11:00-11:50	MTuWTh	Lib 112	Mr. Butts
			3	2:00-2:50	MTuWTh	Lib 112	Mr. Butts
			4	5:45-7:25 P.M.	Tu Th	Lib 112	Staff
School Library Activities and Practices	420-4		1	1:00-1:50	MTuWTh	Lib 112	Miss Fletcher
Photography for Teachers	440-2		1	8:00-8:50	MTuWTh	Lib 112	Miss Fletcher
Preparation of Teacher-Made Materials	445-4		1	1:00-2:50	M Th	Lib 103G	Staff
Radio and TV in the Classroom	457-4	1	1	3:00-4:50	MTuWTh	Lib 112	Staff
Medium of the Motion Picture	458-4	1	1	2:00-2:50	MTuWTh	Lib 103	Mr. Wendt
			1	1:00-2:50	M W	M 203a	Mr. Wendt
Mass Communications in Education	510-4		1	9:00-11:50	S	Lib 112	Mr. Rust & Staff
Reading and Visual Studies	514-4		1	7:35-9:00 P.M.	Tu Th	Lib 112	Staff
History of Books and Libraries	530-4	T1		9:00-11:50	S	Lib 112	Staff
Integration of A-V Materials in the Classroom	546-4	1	1	5:45-7:25 P.M.	Tu Th	Lib 103G	Staff
Supervision and Administration of an A-V Program	548-4		1	7:35-9:00 P.M.	Tu Th	Lib 103G	Staff
Visual Learning	549-4	1	1	9:00-11:50	S	Lib 112	Mr. Wendt
Administration of an Instructional Materials Center	554-4			7:35-9:00 P.M.	M W	Lib 112	Staff
Seminar in Instructional Materials	560-4			9:00-11:50	S	Lib 103G	Staff
Problems in Instructional Materials	576-2 to 4	1	1	To be arranged			Staff
Thesis	599-5 to 9	1	1	To be arranged			Staff
JOURNALISM (JRNL)							
Current Events	100-1	1	1	11:00-11:50	F	T 41 R 101	Mr. Ford
Introduction to Journalism I	101-3	1		8:00-8:50	M W	Ag 154	Mr. Long
Introduction to Journalism II	102-3		1	8:00-8:50	M W	T 41 R 102	Mr. Long
News	103-3	1	1	9:00-9:50	M W	T 48	Mr. Clayton

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
JOURNALISM (JRNL) (Continued)									
News writing and Editing I	201-3	103	1	1	1	1:00-3:50	M W	T 48	Mr. Clayton
News writing and Editing II	202-3	103	2	2	2	1:00-3:50	Tu Th	T 48	Mr. Clayton
News writing and Editing III	203-3		1	1	1	2:00-2:50	M F	T 48	Mr. Nelson
Typography	214-3	202	1	1	1	1:00-2:50	W	T 48	Mr. Nelson
Beginning Photography	260A-3 ¹		1	1	1	5:00-5:50	MTaWTh	T 48	Mr. Clayton
			1	1	1	2:00-4:50	Tu Th	T 48	Mr. Modlin
			1	1	1	11:00-11:50	M W F	T 27 R 104	Mr. Horrell
			1	1	1	1:00-3:50	W	Ag 140	Mr. Horrell
			2	2	2	11:00-11:50	M W F	T 27 R 104	Mr. Horrell
						1:00-3:50	F	Ag 140	Mr. Horrell
Machine Composition I	265B-3 ¹		1			1:00-4:50	M W	VTI No. 2	Mr. Brown
			2			1:00-4:50	Tu Th	VTI No. 2	Mr. Brown
			3			1:00-2:50	Tu ThF	VTI No. 2	Mr. Brown
			4			1:00-2:50	F	VTI No. 2	Mr. Brown
						3:00-4:50	Tu Th	VTI No. 2	Mr. Brown
Machine Composition II	266B-3 ¹		1			1:00-4:50	Tu Th	VTI No. 2	Mr. Brown
Introduction to Magazines	297-3	203		1	1	9:00-9:50	Tu Th S	T 48	Mr. Ford
Radio News writing	310-3		1			9:00-10:50	W F	T 48	Mr. Ford
Radio Editing	311-3			1		9:00-10:50	W F	T 48	Mr. Ford
Editorial Writing	330-3	103, 201, 202, 203	1	1	1	10:00-10:50	W FS	T 48	Mr. Clayton
Public Relations	331-3		1			11:00-11:50	M W F	T 48	Mr. Long
Law of Journalism	340-3				1	8:00-8:50	M W F	T 48	Mr. Long
History of Journalism	345-3				1	11:00-11:50	M W F	T 48	Mr. Long
Community Newspaper	350-3				1	4:00-4:50	M W F	T 48	Mr. Nelson
Community Newspaper Management	351-3		1			4:00-4:50	M W F	T 48	Mr. Nelson
Community Newspaper Production	352-3	350, 351		1		4:00-4:50	M W F	T 48	Mr. Nelson
Press Photography	360A-3 ¹	260A			1	11:00-11:50	Tu Th	T 27 R 104	Mr. Horrell
Advanced Press Photography	361A-3 ¹	360A	1			1:00-4:50	Th	T 27 R 100	Mr. Horrell
Staff Photography	363A-2 to 6 ¹	361A		1		11:00-11:50	Tu Th	T 27 R 104	Mr. Horrell
						Laboratory to be arranged			
Principles of Advertising	370-3	Econ. 205, Jmnl. 202	1		1	Laboratory to be arranged			Mr. Hileman
Advertising Salesmanship	371-3	370	1	1	1	11:00-11:50	M W F	T 48	Mr. Rice
Advertising Copy, Layout and Production	372-5	370				3:00-3:50	M W F	T 48	Mr. Hileman
Advertising Media and Markets	373-2	370	1	1	1	2:00-2:50	TuW F	T 48	Mr. Hileman
						12:00-12:50	Tu Th	T 48	Mr. Hileman

Advertising Policies and Problems	374-3	1	11:00-11:50	M W F	T 48	Mr. Hileman
Advertising Campaigns	376-4	1	2:00-2:50	Tu Th	T 48	Mr. Hileman
			2:00-3:50	M W	T 48	Mr. Hileman
Radio-TV Advertising	377-3	1	11:00-11:50	Tu Th S	T 48	Mr. Ford
Newspaper Promotion	381-3	1	11:00-11:50	M W F	T 48	Mr. Nelson
Radio Special Events	385-2	1	9:00-9:50	Tu Th	T 48	Mr. Ford
Advanced Reporting	390-3	1	10:00-10:50	W FS	T 48	Mr. Clayton
Feature Writing	391-3	1	11:00-11:50	Tu Th S	T 48	Mr. Clayton
Publicity Methods	392-3	1	8:00-8:50	Tu Th S	T 48	Mr. Rice
Specialized Publications	397-3	1	12:00-12:50	M W F	T 48	Mr. Ford
Magazine Production and Layout	398-3	1	12:00-12:50	M W	T 48	Mr. Ford
			3:00-4:50	M	T 48	Mr. Ford
Senior Seminar	399-1	1	10:00-10:50	W	T 48	Mr. Nelson
School Publications	421-4	1	1:00-1:50	MTuWTh	T 48	Mr. Rice
Teaching High School Journalism	422-4	1	1:00-1:50	MTuWTh	T 48	Mr. Rice
Communication Agencies and Public Opinion	432-3	1	7:00-8:50 P.M.	M W	T 48	Mr. Long
Measurement of Public Opinion	433-3	1	9:00-9:50	M W F	T 48	Mr. Hileman
Literature of Journalism	501-4	1	7:00-9:50 P.M.	M	T 48	Mr. Long
Seminar in Public Opinion and Propaganda	532-4	1	7:00-9:50 P.M.	M	T 48	Mr. Long
Research Problems	533-1 to 3	1	To be arranged		T 48	Staff
Thesis	599-1 to 3	1	To be arranged		T 48	Mr. Long

¹ Cross-listed with Printing and Photography.

LABOR INSTITUTE

Students interested in this field should consult Mr. John M. McDermott, Director, Labor Institute. Offices are located at 911 South Forest.

LATIN AMERICAN INSTITUTE

Students interested in a special program in Latin American studies should consult Mr. A. W. Bork, Director, Latin American Institute. Offices are located at 907 South Lewis.

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
MANAGEMENT (MGT)									
Introduction to Business									
	170-4		1		11:00-11:50	MTuW	F	M 304	Mr. Buboltz
			2		11:00-11:50	MTuW	F	Ag 166	Staff
			3		3:00-3:50	MTu	ThF	M 304	Staff
			4		3:00-3:50	MTu	ThF	Ag 166	Mr. Buboltz
				1	11:00-11:50	MTuWTh		Ag 166	Mr. Buboltz
				2	1:00-1:50	TuWThF		Ag 214	Mr. Buboltz
				3	4:00-4:50	TuWThF		M 304	Staff
				1	8:00-8:50	WThFS		Ag 168	Mr. Buboltz
				2	2:00-2:50	TuWThF		A 211	Mr. Buboltz
				3	1:00-1:50	MTuWTh		A 211	Staff
Business Writing									
	271-4	Eng. 103	1		8:00-8:50		WThF	Ag 116	Mr. Dandeneau
			2		12:00-12:50	M	WThF	Ag 166	Mr. Dandeneau
					12:00-12:50		WThF	A 211	Mr. Dandeneau
			3		2:00-2:50	M	WThF	Ag 166	Mr. Dandeneau
					12:00-12:50	M	WThF	A 211	Mr. Dandeneau
					12:00-12:50	M	WThF	P 107	Mr. Dandeneau
				1	11:00-11:50		WThF	A 207	Staff
			2		12:00-12:50	M	WThF	P 107	Mr. Dandeneau
					12:00-12:50	Tu	ThF	Ag 144	Mr. Dandeneau
				1	12:00-12:50	M	ThF	Ag 214	Mr. Dandeneau
				2	2:00-2:50	Tu	ThF	Ag 216	Mr. Dandeneau
					12:00-12:50	M		Ag 214	Mr. Dandeneau
Corporation Finance									
	320-5	Econ. 205, Acct. 253	1		1:00-1:50	MTuWThF		A 211	Mr. Kittrell
			2		9:00-9:50	MTuWThF		M 304	Mr. Buboltz
				1	4:00-4:50	MTuWThF		A 207	Mr. Buboltz
				2	9:00-9:50	TuWThFS		Ag 116	Mr. Kittrell
					4:00-4:50	MTuWThF		M 303	Mr. Kittrell
Investments	323-4	320		1	1:00-1:50	TuWThF		Ag 154	Mr. Buboltz
General Insurance	327-4	Acct. 253, Econ. 206	1		12:00-12:50	MTuWTh		Ag 168	Staff
					12:00-12:50	M	WThF	Ag 216	Staff
					1:00-1:50	M	W F	Ag 144	Mr. Winters
Real Estate	328-3			1					

Business Organization and Management	340-4		1	12:00-12:50	MTu	ThF	M 203B	Staff	
			2	4:00-4:50	MTu	ThF	M 104	Staff	
				8:00-8:50	M	WTh S	Ag 166	Staff	
			1	2:00-2:50	MTuW	F	Ag 150	Staff	
Business Report Writing	361-3			1	4:00-4:50	MTu	ThF	A 211	Staff
		1	9:00-9:50	M	WTh	Ag 150	Mr. Dandaneau		
		2	3:00-3:50	MTuW		M 207	Mr. Danendeanu		
		1	9:00-9:50	M	Th S	M 306a	Mr. Danendeanu		
Small Business Management Internship I Business Law I	364-3 to 14 Sm. Bus. Major 371-4		2	11:00-11:50	Tu	FS	Ag 154	Mr. Dandaneau	
		1	To be arranged					Mr. Bedwell	
		1	8:00-8:50	TuW	FS	M 112	Mr. Kovarsky		
		1	11:00-11:50	M	W FS	Ag 224	Mr. Kovarsky		
Business Law II	372-4	2	2:00-2:50	MTuWTh		M 104	Mr. Winters		
		3	4:00-4:50	MTuWTh		A 211	Mr. Winters		
		4	1:00-1:50	MTuW	F	P 111	Mr. Kovarsky		
		1	8:00-8:50	MTu	FS	Ag 224	Mr. Kovarsky		
Business Law III	373-4	2	12:00-12:50	MTuW	F	Ag 116	Mr. Kovarsky		
		3	3:00-3:50	M	WThF	A 211	Mr. Winters		
		1	11:00-11:50	MTuW	F	HEC 118	Mr. Winters		
		2	2:00-2:50	MTuW	F	M 302	Mr. Winters		
Production Management	380-4	1	8:00-8:50	TuW	FS	M 202	Mr. Stamberg		
			3:00-3:50	MTuW	F	HEC 102	Mr. Rehn		
		1	8:00-8:50	MTuWTh		M 209	Mr. Stamberg		
		1	11:00-11:50	TuWTh		M 206	Mr. Stamberg		
Time and Motion Study Personnel Management	382-3 385-4		9:00-9:50	WThF		A 207	Mr. Douglas		
		1	9:00-9:50		S	HEC 102	Mr. Douglas		
		2	1:00-1:50	TuWThF		M 203	Mr. Douglas		
		1	9:00-9:50	Tu	ThFS	Ag 174	Mr. Douglas		
Management of Business Finance	421-4		1:00-1:50	MTu	ThF	A 211	Mr. Douglas		
		1	9:00-9:50	WThFS		Ag 168	Mr. Douglas		
		1	7:35-9:00 P.M.	M	W	Ag 116	Mr. Kittrell		
		1	2:00-2:50	TuWThF		A 211	Mr. Kittrell		
Life Insurance	428-4	1	12:00-12:50	MTu	ThF	Ag 218	Staff		
		1	9:00-9:50	WThFS		M 202	Staff		
		1	11:00-11:50	MTuW	F	M 307	Staff		
		1	12:00-12:50	MTu	ThF	M 307	Staff		
Fire and Casualty Insurance Programming for Digital Computers ¹	429-4 455-4		11:00-11:50	MTu	ThF	M 307	Staff		
		1	12:00-12:50	MTu	ThF	M 307	Staff		
		1	8:00-8:50	MTuWThF		Ag 144	Mr. Bedwell		
		1	3:00-3:50	MTuW	F	A 211	Mr. Kovarsky		
Small Business Budgeting and Systems	472-5 473-4 475-4		3:00-3:50	MTuWTh		Ag 146	Mr. Mr. Hong		
		1	3:00-3:50	MTuWTh		Ag 146	Mr. Mr. Hong		
		1	3:00-3:50	MTuWTh		Ag 146	Mr. Mr. Hong		
		1	3:00-3:50	MTuWTh		Ag 146	Mr. Mr. Hong		

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
MANAGEMENT (MGT) (Continued)									
Recent Labor Law Development	480-4	2 terms Bus. Law or Econ. 310 or Govt. 395	1			2:00-2:50	MTuW F	HEc 201	Mr. Kovarsky
Administrative Management	481-4	340	1			2:00-2:50	MTuWTh	Ag 172	Mr. Rehn
Advanced Production Management	483-4	380		1		8:00-8:50	MTu ThF	HEc 201	Mr. Stamberg
Problems in Personnel Management	485-4	385		1		7:35-9:00 p.m.	M W	HEc 201	Mr. Douglas
Readings in Business Administration	500-2 to 5		1	1	1	To be arranged			Mr. Hong
Individual Research	501-2 to 5		1	1	1	To be arranged			Mr. Hong
Seminar in Finance	527-5	421			1	7:35-9:00 p.m.	M W	Ag 218	Mr. Kittrell
History and Theory of Management	540-5	481		1		7:35-9:00 p.m.	MTu Th	HEc 306	Mr. Hong
Seminar in Management	594-4		1			7:35-9:00 p.m.	Tu Th	Ag 180	Mr. Hong
Seminar in Personnel Management	595-4			1	1	7:35-9:00 p.m.	Tu Th	Ag 218	Mr. Douglas
Thesis	599-2 to 9		1	1	1	To be arranged			Mr. Hong

¹ Cross-listed with Mathematics.

MARKETING (MKTG)

Principles of Marketing	230-5	Econ. 205	1			11:00-11:50	MTuWThF	LS 326	Mr. Benson
			2			11:00-11:50	MTuWThF	HEc 206	Mr. Shell
			3			6:00-7:25 P.M.	M WTh	A 211	Mr. Hindersman
				1		8:00-8:50	MTuWThF	LS G-16	Mr. Rosenbarger
				2		4:00-4:50	MTuWThF	LS 326	Mr. Benson
Retailing	331-4	230	1		1	1:00-1:50	MTuWThF	Ag 214	Mr. Hindersman
Store Management	332-4	331		1		9:00-9:50	MTuWTh	Ag 216	Mr. Shell
Advertising	333-4	230	1			8:00-8:50	MTuWTh	Ag 168	Mr. Rosenbarger
					1	8:00-8:50	MTuWTh	Ag 168	Mr. Hindersman
					1	8:00-8:50	TuWThF	Ag 214	Mr. Hindersman
Credits and Collections	334-4	230	1			12:00-12:50	M WThF	Ag 214	Mr. Rosenbarger
			1		1	12:00-12:50	MTuW F	Ag 211	Mr. Hindersman
Purchasing	336-3	230	1			9:00-9:50	M ThF	A 214	Mr. Rosenbarger
				1		2:00-2:50	MTu Th	Ag 214	Mr. Benson
Salesmanship	337-4	230	1			3:00-3:50	MTuW F	A 211	Mr. Hoffman
				1		3:00-3:50	MTuWTh	Ag 116	Mr. Hoffman
				2		5:45-7:25 P.M.	M W	Ag 116	Mr. Shell
					1	9:00-9:50	M WThF	Ag 218	Mr. Shell

Transportation	341-4	230	1	4:00-4:50	TuWThF	Ag 168	Mr. Rosenbarger
Wholesaling	349-3	230	1	5:45-7:25 p.m.	M W	Ag 168	Mr. Rosenbarger
Advertising Media Analysis	384-4	333	1	12:00-12:50	M W F	Ag 214	Mr. Benson
				11:00-11:50	MTu ThF	HEc 206	Mr. Hindersman
Sales Management	438-4	230 or 337	1	2:00-2:50	TuWThF	HEc 102	Mr. Hoffman
Traffic Management	451-4	341	1	1:00-1:50	MTu ThF	HEc 102	Mr. Hoffman
Advertising Management	463-3	333	1	9:00-12:00	S	Ag 218	Mr. Hindersman
Marketing Research and Analysis	490-4	230 and Statistics	1	8:00-12:00	S	Ag 116	Mr. Benson
Readings	500-2 to 5		1	To be arranged			Mr. Hindersman
Individual Research	501-2 to 5		1	To be arranged			Mr. Benson
Graduate Survey	550-4		1	2:00-2:50	MTu ThF	Ag 168	Mr. Hoffman
Marketing Policies	560-4	230 or 550	1	5:45-7:25 p.m.	Tu Th	Ag 150	Mr. Hoffman
Advanced Market Research and Analysis	590-4	490	1	11:00-11:50	MTuW F	Ag 146	Mr. Benson
Seminar	595-3	230 or 550	1	To be arranged			Mr. Hoffman
Thesis	599-2 to 5		1	To be arranged			Mr. Hoffman

MATHEMATICS (MATH)

Elementary Mathematics	100-0		1	8:00-8:50	M W	M 314	Mr. Slechitcky
				8:00-8:50	Tu Th	M 309	Staff
			2	8:00-8:50	M W	M 314	Mr. Slechitcky
				8:00-8:50	Tu S	M 307	Staff
			3	8:00-8:50	M W	M 314	Mr. Slechitcky
				8:00-8:50	Tu F	M 310	Staff
			4	8:00-8:50	M W	M 314	Mr. Slechitcky
				8:00-8:50	Tu S	M 312	Staff
			1	8:00-8:50	MTu ThF	M 307	Staff
			2	8:00-8:50	TuWThF	M 313	Staff
			3	12:00-12:50	M	M 310	Staff
				12:00-12:50	W	M 307	Staff
				12:00-12:50	Th	M 111	Staff
				12:00-12:50	F	M 312	Staff
			1	8:00-8:50	MTu ThF	M 307	Staff
			2	12:00-12:50	MTu ThF	M 307	Staff
				8:00-8:50	Tu ThFS	M 314	Staff
			1	10:00-10:50	W S	M 312	Staff
			2	11:00-11:50	Tu Th	M 314	Staff
General Mathematics I	106a-4						

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
			F	W	S				
MATHEMATICS (MATH) (Continued)									
General Mathematics I									
	106a-4		3			10:00-10:50	W F	M 314	Staff
						11:00-11:50	Tu Th	M 314	Staff
			T4			10:00-10:50	W F	M 307	Staff
						11:00-11:50	Tu Th	M 314	Staff
			5			11:00-11:50	MTu Th S	M 112	Staff
			T6			12:00-12:50	M	M 310	Staff
						12:00-12:50	Tu	M 314	Staff
						12:00-12:50	W	M 307	Staff
			7 ¹			12:00-12:50	F	M 312	Staff
			T8			2:00-2:50	MTu ThF	BrownH	Staff
			9			4:00-4:50	TuWThF	M 312	Staff
						5:45-7:25 P.M.	Tu Th	M 311	Staff
				1		8:00-8:50	Tu Th	M 314	Miss Moore
				2		8:00-8:50	W S	M 307	Staff
				T3		8:00-8:50	MTuWTh	M 314	Miss Moore
				T4		11:00-11:50	MTu ThF	M 307	Staff
			5			12:00-12:50	MTuW F	M 111	Staff
			6 ¹			1:00-1:50	MTu ThF	BrownH	Staff
			7			3:00-3:50	MTuWTh	M 311	Staff
			8			5:45-7:25 P.M.	Tu Th	M 311	Staff
				1		8:00-8:50	M	M 310	Staff
						8:00-8:50	Tu	M 311	Staff
						8:00-8:50	W	M 307	Staff
						8:00-8:50	Th	M 314	Staff
				2		9:00-9:50	Tu Th	M 314	Staff
				3		10:00-10:50	W S	M 311	Staff
						9:00-9:50	Tu Th	M 314	Staff
				4		10:00-10:50	W F	M 314	Staff
						9:00-9:50	Tu Th	M 314	Staff
						10:00-10:50	W F	M 309	Staff
				5		11:00-11:50	M WTh S	M 314	Staff
			6			12:00-12:50	MTuWTh	M 111	Staff
			7			1:00-1:50	MTuW F	M 311	Staff
			8			2:00-2:50	M W	M 314	Mr. McDaniel
						2:00-2:50	Tu F	M 314	Staff

General Mathematics I (Business Students)	106b-4	9	2:00-2:50	M	W	M 314	Mr. McDaniel
		10	2:00-2:50	Tu	F	M 202	Staff
			2:00-2:50	M	W	M 309	Staff
			2:00-2:50	Tu	Th	M 314	Mr. McDaniel
		11 ¹	2:00-2:50	MTuWTh		M 111	Staff
		12	3:00-3:50	MTuWTh		BrownH	Staff
		13	4:00-4:50	MTuWTh		M 314	Staff
		14	5:45-7:25 p.m.	Tu	Th	M 314	Staff
			7:35-9:15 p.m.	Tu	Th	M 311	Staff
		1	9:00-9:50	MTu	FS	M 111	Staff
		2	11:00-11:50	MTu	ThF	M 312	Staff
		T3	12:00-12:50	MTuWTh		M 310	Staff
		4	2:00-2:50	TuWThF		M 312	Staff
		5	3:00-3:50	M	W	M 309	Staff
General Mathematics I (pre-111)	106c-4		3:00-3:50	W		M 107	Staff
			3:00-3:50	Th		M 311	Staff
			3:00-3:50	F		M 111	Staff
		6	7:35-9:15 p.m.	M	W	M 311	Staff
		1	9:00-9:50	Tu	Th	M 314	Mr. Fulkerson
			10:00-10:50	W	S	M 310	Staff
		2	9:00-9:50	Tu	Th	M 314	Mr. Fulkerson
		3	10:00-10:50	W	F	M 111	Staff
			9:00-9:50	Tu	Th	M 314	Mr. Fulkerson
			10:00-10:50	W	S	M 309	Staff
		4	2:00-2:50	MTu	ThF	M 307	Staff
		5	4:00-4:50	TuWThF		M 312	Staff
		6	7:35-9:15 p.m.	M	W	M 311	Staff
		1	8:00-8:50	M	WThF	M 307	Staff
		2	9:00-9:50	Tu	Th	M 314	Mr. Fulkerson
General Mathematics I (Business Students)	106b-4	3	10:00-10:50	W	S	M 309	Staff
			9:00-9:50	Tu	Th	M 314	Mr. Fulkerson
			10:00-10:50	W	F	M 310	Staff
		T4	9:00-9:50	Tu	Th	M 314	Mr. Fulkerson
			10:00-10:50	W	F	M 311	Staff
		5	1:00-1:50	Tu	Th	M 314	Miss Moore
			1:00-1:50	W	F	M 311	Staff
		6	1:00-1:50	Tu	Th	M 314	Miss Moore
			1:00-1:50	W	F	M 309	Staff
		T7	1:00-1:50	Tu	Th	M 314	Miss Moore
			1:00-1:50	M		M 311	Staff
			1:00-1:50	W		M 310	Staff
		8 ¹	3:00-3:50	MTu	ThF	BrownH	Staff

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
MATHEMATICS (MATH) (Continued)									
General Mathematics I (pre-111)	106c-4		F	W	S				
			9			4:00-4:50	MTuWTh	M 112	Staff
			10			5:45-7:25 P.M.	Tu Th	M 310	Staff
			11			7:35-9:15 P.M.	Tu Th	M 309	Staff
				1		9:00-9:50	Tu F	M 312	Staff
						9:00-9:50	Th	M 111	Staff
				2		9:00-9:50	Tu Th	M 311	Staff
						11:00-11:50	W	M 111	Staff
				3		11:00-11:50	MTuWTh	M 311	Staff
				4		1:00-1:50	M	M 307	Staff
						2:00-2:50	Tu Th	M 310	Staff
						2:00-2:50	W	M 311	Staff
				5		2:00-2:50	Tu Th	M 312	Staff
						5:45-7:25 P.M.	Tu Th	M 111	Staff
				1		8:00-8:50	MTuW F	M 314	Staff
				2		11:00-11:50	TuWTh S	M 312	Staff
				3		1:00-1:50	MTuWTh	M 111	Staff
				T4		3:00-3:50	M	M 312	Staff
						3:00-3:50	Tu Th	M 307	Staff
						3:00-3:50	F	M 111	Staff
				5		7:35-9:15 P.M.	M W	M 311	Staff
						9:00-9:50	M	M 312	Staff
			1			9:00-9:50	Tu	M 307	Staff
						9:00-9:50	WTh	M 111	Staff
			2			12:00-12:50	MTu ThF	M 307	Staff
			3			3:00-3:50	MTuW F	M 311	Staff
			4			7:35-9:15 P.M.	Tu Th	M 111	Miss Moore
				1		8:00-8:50	M	M 111	Staff
						8:00-8:50	Tu Th	M 312	Staff
						8:00-8:50	F	M 314	Staff
				2		11:00-11:50	M	M 309	Staff
						11:00-11:50	W FS	M 314	Mr. Slechicky
				3		12:00-12:50	TuWThF	M 112	Mr. Slechicky
				4		4:00-4:50	M	M 312	Staff
						4:00-4:50	Tu Th	M 307	Staff
						4:00-4:50	W	M 112	Staff
				1		8:00-8:50	M W F	M 312	Miss Moore
						8:00-8:50	S	M 309	Miss Moore
				T2		11:00-11:50	Tu	M 309	Staff
General Mathematics II	107a-4	106a	1			9:00-9:50	Tu	M 307	Staff
						9:00-9:50	WTh	M 111	Staff
			2			12:00-12:50	MTu ThF	M 307	Staff
			3			3:00-3:50	MTuW F	M 311	Staff
			4			7:35-9:15 P.M.	Tu Th	M 111	Miss Moore
				1		8:00-8:50	M	M 111	Staff
						8:00-8:50	Tu Th	M 312	Staff
						8:00-8:50	F	M 314	Staff
				2		11:00-11:50	M	M 309	Staff
						11:00-11:50	W FS	M 314	Mr. Slechicky
				3		12:00-12:50	TuWThF	M 112	Mr. Slechicky
				4		4:00-4:50	M	M 312	Staff
						4:00-4:50	Tu Th	M 307	Staff
						4:00-4:50	W	M 112	Staff
				1		8:00-8:50	M W F	M 312	Miss Moore
						8:00-8:50	S	M 309	Miss Moore
				T2		11:00-11:50	Tu	M 309	Staff

General Mathematics II
(Business Students)

107b-4 106 or 111

T3	11:00-11:50	W	M 307	Staff
4	11:00-11:50	Th	M 310	Staff
	11:00-11:50	F	M 312	Staff
	1:00-1:50	TuWThF	M 310	Staff
	4:00-4:50	TuWThF	M 111	Staff
T1	9:00-9:50	M W FS	M 309	Mr. Slechicky
T2	11:00-11:50	M	M 312	Staff
	11:00-11:50	Tu Th	M 310	Staff
	11:00-11:50	W	M 307	Staff
T3	1:00-1:50	TuWThF	M 309	Staff
T4	2:00-2:50	TuWThF	M 111	Staff
T5	7:35-9:15 P.M.	Tu Th	M 311	Staff
	9:00-9:50	Tu Th S	M 307	Mr. Fulkerson
	9:00-9:50	W	M 312	Staff
T2	12:00-12:50	TuWThF	M 309	Staff
T3	2:00-2:50	MTuWTh	M 309	Staff
T4	3:00-3:50	MTuWTh	M 111	Staff
T5	5:45-7:25 P.M.	Tu Th	M 311	Staff
1	8:00-8:50	MTuW FS	M 311	Mr. Wimp
T2	8:00-8:50	MTuWThF	M 214	Staff
3	9:00-9:50	M W F	M 314	Mr. Hall
	9:00-9:50	Th	M 309	and Staff
4	9:00-9:50	M W FS	M 311	Staff
	9:00-9:50	Th	M 314	Mr. Hall
5	9:00-9:50	M W F	M 307	and Staff
	9:00-9:50	Tu Th	M 314	Mr. Hall
6	9:00-9:50	M W FS	M 311	and Staff
	11:00-11:50	Th	M 314	Mr. Kenner
7	11:00-11:50	M W F	M 314	and Staff
	11:00-11:50	Th S	M 311	Mr. Kenner
8	11:00-11:50	M W F	M 314	and Staff
	11:00-11:50	Tu Th	M 310	Mr. Kenner
9	12:00-12:50	MTuWThF	M 311	and Staff
10 ¹	1:00-1:50	MTuWThF	BrownH	Miss Beckeneyer
11	2:00-2:50	M W F	M 314	Staff
	2:00-2:50	Tu Th	M 111	Mr. McDaniel
12	2:00-2:50	MTuWThF	M 314	and Staff
	2:00-2:50	M W F	M 314	Mr. McDaniel
13	2:00-2:50	Tu Th	M 312	and Staff
14	3:00-3:50	MTuWThF	M 314	Staff

Elementary Analysis I

111-5 H.S. or 106c

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
MATHEMATICS (MATH) (Continued) Elementary Analysis I	111-5		F	W	S			
			15			M W F Tu Th	M 314	Staff
			16			M W F Tu Th	M 307	Staff
			17			M W F Tu Th	M 314	Staff
			18			MTuWThF	M 312	Staff
			19			4:00-4:50	M 311	Staff
					6:00-7:25 P.M.	M WTh	M 112	Staff
					7:35-9:00 P.M.	M WTh	M 314	Staff
				1		8:00-8:50	M 309	Mr. Slechicky
				2		9:00-9:50	MTuWThF	Staff
				3		10:00-10:50	W F	Staff
				4		11:00-11:50	MTu Th	Staff
				5		10:00-10:50	W S	Staff
				6		11:00-11:50	MTu Th	Staff
				7		12:00-12:50	W F	Staff
				8		2:00-2:50	MTuWThF	Staff
				9		4:00-4:50	MTuWThF	Staff
				10		6:00-7:25 P.M.	M WTh	Staff
Elementary Analysis II	112-5	Test or 111				7:35-9:00 P.M.	M 309	Miss Beckemeyer
				1		9:00-9:50	MTuWThF	Staff
				2		11:00-11:50	MTu ThFS	Staff
				3		2:00-2:50	MTuWThF	Brown H
				T4		4:00-4:50	MTuWThF	Staff
						9:00-9:50	MTuWThF	Staff
						12:00-12:50	MTuWThF	Staff
			1			3:00-3:50	MTuWThF	Staff
			2			4:00-4:50	MTuWThF	Staff
			T3			9:00-9:50	M W F	Staff
			4			9:00-9:50	Tu S	Mr. McDaniel
				1		9:00-9:50	M W F	Staff
				2		9:00-9:50	M W F	Mr. McDaniel
						9:00-9:50	Tu Th	Staff
				T3		9:00-9:50	M W F	Mr. McDaniel
				4		9:00-9:50	Tu Th	Staff
				5		12:00-12:50	MTuWThF	Miss Beckemeyer
				6		1:00-1:50	MTuWThF	Mr. Kenner and Staff
						1:00-1:50	M W F	Mr. Kenner

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Title	Course No. & Hours	Prerequisite	Qr. & Sec. No. F W S	Time	Days	Bldg. No. Room No.	Instructor
MATHEMATICS (MATH) (Continued)							
Calculus and Analytic Geometry I	113-5						
			5	1:00-1:50	MTuWThF	M 314	Mr. McDaniel and Staff
			6	1:00-1:50	M W F	M 314	Mr. McDaniel and Staff
			7	1:00-1:50	Tu Th F	M 307	Mr. McDaniel and Staff
			8	1:00-1:50	M W F	M 314	Mr. McDaniel and Staff
			9	3:00-3:50	Tu Th	M 312	Staff
			10	3:00-3:50	MTuWThF	M 314	Staff
			11	4:00-4:50	MTuWThF	M 311	Staff
				6:00-7:25 P.M.	M WTh	M 309	Staff
				7:35-9:00 P.M.	M WTh	M 314	Staff
Teaching of Elementary Mathematics	210-4	106	1 2 T3	8:00-8:50 12:00-12:50 4:00-4:50 4:00-4:50 4:00-4:50 4:00-4:50 8:00-8:50 8:00-8:50 8:00-8:50 1:00-1:50 3:00-3:50 3:00-3:50 8:00-8:50 12:00-12:50 3:00-3:50 9:00-9:50 12:00-12:50 11:00-11:50 2:00-2:50 9:00-9:50 4:00-4:50 9:00-9:50 11:00-11:50 1:00-1:50 2:00-2:50 2:00-2:50 2:00-2:50 3:00-3:50	M WTh S TuWThF Tu Th W F M Tu Th S M WThF TuWThF TuWTh S MTuW F TuWThF TuWThF MTuW FS MTuWThF TuWThFS MTuWThF MTu ThFS MTuWThF TuWThF TuW FS MTu ThF M Tu Th W MTuWTh	M 310 M 310 M 307 M 310 M 314 M 112 M 309 M 311 M 312 M 307 M 310 M 310 M 312 M 309 M 309 M 309 M 312 M 309 M 312 M 309 M 311 M 310 M 310 M 311 M 111	Mr. Fulkerson Mr. Slechnicky Staff Staff Staff Staff Mr. Fulkerson Mr. Fulkerson Mr. Slechnicky Staff Mr. Fulkerson Mr. Slechnicky Staff Mr. Wimp Miss Beckemeyer Staff Staff Staff Mr. Black Mr. Wimp Mr. Slechnicky Staff Staff Mr. Boen
Elementary Statistics	220-4	106 or 111	1 2 T2 3				
Calculus and Analytic Geometry II	251-4	113	1 2 3 4 T5				

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
			F	W	S				
MATHEMATICS (MATH) (Continued)									
Fundamental Concepts of Algebra	320-3	251	1 2 3			9:00-9:50 11:00-11:50 2:00-2:50	M W F M W F M W F	M 311 M 111 M 311	Mr. McDaniel Mr. Boen Miss Moore
					1	9:00-9:50	Tu Th S	M 112	Mr. Skalsky
					2	9:00-9:50	M	M 201	Mr. Skalsky
						1:00-1:50	M	M 312	Miss Moore
Linear Algebra I	321-3	253	1			3:00-3:50	M W F	M 312	Mr. Kenner
				1		11:00-11:50	M	M 111	Mr. Boen
				2		2:00-2:50	M	M 311	Miss Moore
Linear Algebra II	322-3	321		1		3:00-3:50	M W F	M 310	Mr. Kenner
					1	2:00-2:50	M	M 111	Mr. Boen
Concepts of Geometry I	335-3	252	1			8:00-8:50	M W F	M 309	Mr. Black
				1		4:00-4:50	M	M 311	Mr. Hall
						4:00-4:50	W	M 111	Mr. Hall
				1		4:00-4:50	M	M 309	Mr. Hall
Concepts of Geometry II	336-3	335		1		8:00-8:50	M W F	M 312	Mr. Black
					1	4:00-4:50	M	M 214	Mr. Hall
History of Mathematics	400-3	320			1	8:00-8:50	Tu Th S	M 312	Mr. Kenner
Statistical Analysis I	410-4	111	1			4:00-4:50	MTu ThF	M 310	Mr. Skalsky
Statistical Analysis II	411-4	410		1		4:00-4:50	MTu ThF	M 112	Mr. Skalsky
Statistical Analysis III	412-4	411			1	4:00-4:50	MTu ThF	M 307	Mr. Skalsky
Theory of Numbers	425-3	320	1			2:00-2:50	M W F	M 312	Mr. Hall
Theory of Point Sets	433-3	Consent of Dept.	1	1		9:00-9:50	M	M 111	Mr. Boen
Advanced Calculus I	452-3	253	1			9:00-9:50	M W F	M 307	Mr. Olmsted
			2			4:00-4:50	M	M 307	Mr. Olmsted
Advanced Calculus II	453-3	452		1		4:00-4:50	M W F	M 307	Mr. Wilson
				2		9:00-9:50	M	M 307	Mr. Olmsted
Advanced Calculus III	454-3	453		2		4:00-4:50	M W F	M 307	Mr. Wilson
					1	9:00-9:50	M	M 307	Mr. Olmsted
					2	4:00-4:50	M	M 111	Mr. Wilson
						4:00-4:50	W	M 307	Mr. Wilson
						4:00-4:50	F	M 314	Mr. Wilson
Programming for Digital Computers	455-4	Consent of Dept.	1 ²			11:00-11:50 12:00-12:50	MTuW MTu ThF	M 307 M 307	Staff Staff
				1 ²		11:00-11:50	MTu ThF	M 307	Staff
Numerical Methods	475-3	305			1 ²	12:00-12:50	M	M 309	Mr. Rodabaugh
				1		12:00-12:50	W	M 307	Mr. Rodabaugh

Probability and Statistics I	480-3	253	1		12:00-12:50	F	M	W	F	M 111	Mr. Rodabaugh
Probability and Statistics II	481-3	480		1	3:00-3:50		M			M 307	Mr. Skalsky
					3:00-3:50			W		M 111	Mr. Skalsky
					3:00-3:50				F	M 311	Mr. Skalsky
Probability and Statistics III	482-3	481		1	3:00-3:50		M	W	F	M 307	Mr. Skalsky
Real Variables I	501-3	454	1		1:00-1:50		M	W	F	M 307	Mr. Olmsted
Real Variables II	502-3	501		1	1:00-1:50		M		W	M 309	Mr. Olmsted
					1:00-1:50			W		M 313	Mr. Olmsted
					1:00-1:50		M		F	M 307	Mr. Olmsted
Real Variables III	503-3	502	1		1:00-1:50		M	W	F	M 307	Mr. Olmsted
Modern Algebra I	520-4	320 and 321		1	4:00-4:50		MTu	ThF		M 111	Mr. Boen
Modern Algebra II	521-4	520		1	4:00-4:50		MTu	ThF		M 111	Mr. Boen
Point Set Topology	530-3	433		1	9:00-9:50		M	W	F	M 111	Mr. Boen
Differential Geometry	536-3	454		1	2:00-2:50		M	WTh		M 202	Mr. Black
Complex Variables I	555-3	453		1	11:00-11:50		M	W	F	M 313	Mr. Wilson
Complex Variables II	556-3	555		1	11:00-11:50		M	W	F	M 313	Mr. Wilson
Special Project in Algebra	595A-2 to 4		1	1	To be arranged						Staff
Special Project in Geometry	595B-2 to 4		1	1	To be arranged						Staff
Special Project in Analysis	595C-2 to 4		1	1	To be arranged						Staff
Special Project in Probability and Statistics	595D-2 to 4		1	1	To be arranged						Staff
Special Project in Mathematics Education	595E-2 to 4		1	1	To be arranged						Staff
Thesis in Mathematics	599-2 to 6		1	1	To be arranged						Staff

¹ Open to Thompson Point residents only.

² Cross-listed with Management.

MICROBIOLOGY (MICR)

Principles of Microbiology

100-5	H.S. Biol.	1			12:00-12:50	M	W	F	LS G-16	Mr. Shechmeister
					8:00-9:50	Tu	Th		LS G-6	Mr. Shechmeister
			1		1:00-1:50	M	W	F	LS G-16	Mr. Shechmeister
					8:00-9:50	Tu	Th		LS G-6	Mr. Shechmeister
	Enrollment in Nursing	2			1:00-1:50	M	W	F	LS G-16	Mr. Shechmeister
					1:00-3:50	Tu	Th		LS G-6	Staff
201-5	100	1			9:00-9:50	M	W	F	LS G-16	Mr. McClary
					8:00-9:50	Tu	Th		LS G-6	Mr. McClary

General Microbiology

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
MICROBIOLOGY (MICR) (Continued)									
Advanced General Microbiology	301-5	1 yr. Chem., 1 course Bot. or Zool.	1			2:00-2:50 1:00-2:50 2:00-2:50 3:00-4:50	M W F Tu Th M W F Tu Th	LS G-16 LS G-6 LS G-16 LS G-6	Mr. McClary Mr. McClary Mr. McClary Mr. McClary Staff
Readings in Microbiology	350-1 to 3	10 hrs. Micr.	1	1	1	10:00-11:50	F	LS G-16	Mr. Lindegren
Seminar	401-2	10 hrs. Micr. and Consent of Instr.	1	1	1	7:30-9:00	Tu	LS G-16	Mr. Shechmeister
Medical Bacteriology	403-5	201 or 301	1			9:00-9:50 8:00-9:50 12:00-12:50	MTu Th W F M WTh	LS G-16 LS G-6 LS 323	Mr. McClary Mr. McClary Mr. McClary
Microbiology of Foods	422-5	201 or 301		1		1:00-4:50	F	LS G-6	Mr. McClary
Industrial Fermentation	423-5	201 or 301, Org. Chem.			1	11:00-11:50	Tu Th S	LS G-16	Mr. McClary
Soil Microbiology	424A-3 ¹	Bot. 101	1			1:00-4:50	F	LS G-6	Mr. McClary
Soil Microbiology Laboratory	424B-2 ¹	301 and 424	1		1	8:00-8:50	M W F	Ag 172	Mr. Kelly
Biochemistry and Physiology of Microorganisms	425-3	201 or 301, Org. Chem.	1			8:00-11:50 3:00-3:50	S MTuW	Ag 181 LS 323	Mr. Kelly Mr. Ogur
Biochemistry and Physiology of Microorganisms	426-2	201 or 301, Org. Chem.	1			1:00-4:50	Th	LS G-8	Mr. Ogur
Virology	441-5	403			1	1:00-2:50 8:00-8:50	Tu Th MTuW F	LS G-6 LS G-16	Mr. Shechmeister Mr. Shechmeister
Immunology	451-5	403	1		1	10:00-11:50 9:00-9:50	W S M W FS	LS G-6 LS G-16	Mr. Shechmeister Mr. Shechmeister
Seminar	500-2		1	1	1	10:00-11:50	F	LS 323	Mr. Lindegren
Genetics of Microorganisms	501-2		1			To be arranged			Mr. Lindegren
Cytology of Microorganisms	503-2		1			To be arranged			Mr. Lindegren
Methods of Microbiological Research	504-5				1	To be arranged			Mr. Ogur
Bibliographic Methods	506-2		1		1	5:45-7:25 P.M.	Tu Th		Mr. Ogur
Research	511		1		1	To be arranged			Staff
Biochemistry and Physiology of Microorganisms	525-3	425	1		1	2:00-2:50	M W F	LS G-16	Mr. Ogur
Biochemistry and Physiology of Microorganisms Laboratory	526-2	426	1			1:00-4:50	Th	LS G-8	Mr. Ogur
Readings in Microbiology	528-1 to 10		1	1	1	To be arranged			Staff

Dissertation

600-1 to 16

¹ Cross-listed with Plant Industries.**MUSIC (MUS)**

Band	001-1	1					MTuWThF	Aud Stage	Mr. Canedy
Chorus	002A-1	1	1		4:00-5:30		MTuWThF	Aud Stage	Mr. Olsson
Chorus (Oratorio)	002B-1/2	1	1	1	3:00-3:50		MTuWTh	Alg 115	Mr. Hines
Orchestra	003-1	1	1	1	7:00-9:30 p.m.		M	Alg 115	Mr. Hines
		1	1	1	1:00-1:50		MTuWTh	Aud Stage	Mr. Ficocelli
					7:15-9:30 p.m.		Tu	Aud Stage	Mr. Ficocelli
Class Violin	010A-1	1	1	1	8:00-8:50		MTuWThF	Aud Stage	Mr. Wharton
Class Viola	010B-1	1	1	1	8:00-8:50		MTuWThF	Aud Stage	Mr. Wharton
Class Cello	010C-1	1	1	1	8:00-8:50		MTuWThF	Aud 111	Mr. Baker
Class String Bass	010D-1	1	1	1	8:00-8:50		MTuWThF	Aud 111	Mr. Baker
Private Violin	011-2 or 4	1	1	1	To be arranged			Alg 219	Mr. Wharton
		2	2	2	To be arranged			Aud 111	Mr. Ficocelli
Private Viola	012-2 or 4	1	1	1	To be arranged			Alg 219	Mr. Wharton
Private Cello	013-2 or 4	1	1	1	To be arranged			Alg 244	Mr. Baker
Private String Bass	014-2 or 4	1	1	1	To be arranged			Aud 111	Mr. Ficocelli
Class Flute	020A-1	1	1	1	8:00-8:50		MTuWThF	Aud 201	Mr. Resnick
Class Oboe	020B-1	1	1	1	8:00-8:50		MTuWThF	Alg 231	Mr. Forman
Class Clarinet	020C-1	1	1	1	8:00-8:50		MTuWThF	Aud 201	Mr. Resnick
Class Bassoon	020D-1	1	1	1	8:00-8:50		MTuWThF	Alg 231	Mr. Forman
Class Saxophone	020E-1	1	1	1	8:00-8:50		MTuWThF	Aud 201	Mr. Resnick
Private Flute	021-2 or 4	1	1	1	To be arranged			Aud 201	Mr. Resnick
Private Oboe	022-2 or 4	1	1	1	To be arranged			Alg 231	Mr. Forman
Private Clarinet	023-2 or 4	1	1	1	To be arranged			Aud 201	Mr. Resnick
Private Bassoon	024-2 or 4	1	1	1	To be arranged			Alg 231	Mr. Forman
Private Saxophone	025-2 or 4	1	1	1	To be arranged			Aud 201	Mr. Resnick
Class Percussion	030-2 or 4	1	1	1	8:00-8:50			Aud 202	Mr. Canedy
Private Percussion	031-2 or 4	1	1	1	To be arranged		M W F	Aud 202	Mr. Canedy
Class Piano (for Music Major 1, 2, 3)	040-1	1	1	1	8:00-8:50		M W F	Alg 30f	Mrs. Hartline
		2	2	2	8:00-8:50		Tu Th S	Alg 30f	Mr. Shaak
Class Piano (for Music Major 4, 5, 6)	040-1	3	3	3	9:00-9:50		M W F	Alg 301	Mrs. Hartline
		4	4	4	9:00-9:50		Tu Th S	Alg 301	Mr. Shaak

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
MUSIC (MUS) (Continued)									
Class Piano (for K.P. 1, 2, 3)	040-1		5	5	5	11:00-11:50	M W F	Alg 301	Mrs. Harline
			6	6	6	11:00-11:50	Tu Th S	Alg 301	Mr. Shaak
Class Piano (Non Major 1, 2, 6)	040-1	Consent of Dept.	7	7	7	1:00-1:50	M W F	Alg 301	Mrs. Harline
Class Piano (Non Major)	040-1	Consent of Dept.	8	8	8	2:00-2:50	M W F	Alg 301	Mrs. Harline
			9	9	9	3:00-3:50	M W F	Alg 301	Mr. Shaak
			10	10	10	4:00-4:50	M W F	Alg 301	Mr. Shaak
Private Piano	041-2 or 4		1	1	1	To be arranged		Alg 245	Mr. Denker
			2	2	2	To be arranged		Alg 247	Mr. Barwick
			3	3	3	To be arranged		Alg 244	Mr. Mueller
			4	4	4	To be arranged		Alg 245	Mrs. Grizzell
Class French Horn	050A-1		1	1	1	8:00-8:50	MTuWThF	Aud 204	Mr. Betterton
Class Trumpet	050B-1		1	1	1	8:00-8:50	MTuWThF	Aud 204	Mr. Betterton
Class Trombone	050C-1		1	1	1	8:00-8:50	MTuWThF	Alg 229	Mr. Betterton
Class Tuba	050D-1		1	1	1	8:00-8:50	MTuWThF	Alg 229	Mr. Betterton
Class Baritone	050E-1		1	1	1	8:00-8:50	MTuWThF	Alg 229	Mr. Betterton
Private French Horn	051-2 or 4		1	1	1	To be arranged		Aud 204	Mr. Olsson
Private Trumpet	052-2 or 4		1	1	1	To be arranged		Aud 204	Mr. Olsson
Private Trombone	053-2 or 4		1	1	1	To be arranged		Alg 229	Mr. Betterton
Private Tuba	054-2 or 4		1	1	1	To be arranged		Alg 229	Mr. Betterton
Private Baritone	055-2 or 4		1	1	1	To be arranged	W F	Alg 229	Mr. Betterton
Class Voice (First Term)	060-1		1	1	1	10:00-10:50	Tu Th	Alg 248	Mr. Hines
Class Voice (Second Term)	060-1		2	2	2	1:00-1:50		Alg 248	Mr. Hines
Private Voice	060-2 or 4		1	1	1	To be arranged		Alg 246	Mr. Taylor
			2	2	2	To be arranged		Alg 239	Mrs. MacClintock
			3	3	3	To be arranged		Alg 106	Miss Lawrence
Private Organ	071-1 or 4		1	1	1	To be arranged		Alg 243	Mr. Morgan
Music Understanding	100-3		1	1	1	8:00-8:50	M W F	Alg 115	Staff
			2	2	2	8:00-8:50	Tu Th S	Alg 115	Staff
			3	3	3	9:00-9:50	M W F	Alg 115	Staff
			4	4	4	9:00-9:50	Tu Th S	Alg 115	Staff
			5	5	5	12:00-12:50	M W F	Alg 115	Staff
Theory of Music	105-4		1	1	1	9:00-9:50	MTuWThF	Alg 244	Mr. Bottje
			2	2	2	9:00-9:50	MTuWThF	Alg 116	Mr. Olsson
			3	3	3	9:00-9:50	MTuWThF	Alg 248	Mr. Betterton
Theory of Music	106-4		1	1	1	9:00-9:50	MTuWThF	Alg 244	Mr. Bottje
			2	2	2	9:00-9:50	MTuWThF	Alg 116	Mr. Olsson

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
MUSIC (MUS) (Continued)									
Music History and Literature III	332-4					1	11:00-11:50	MTuWThF	Mr. Morgan
Composition IV	342-2	313 and Consent of Dept.	1				To be arranged	Alg 233	Mr. Bottje
Composition V	343-2	313 and Consent of Dept.		1			To be arranged	Alg 233	Mr. Bottje
Composition VI	344-2	313 and Consent of Dept.			1		To be arranged	Alg 233	Mr. Bottje
Madrigal Singers	345-1	Consent of Dept.	1	1			4:00-4:50	M W	Mr. Hines
Opera Workshop	346-2 to 12	Consent of Dept.	1	1			4:00-4:50	Tu Th	Mr. W. Taylor and Miss Lawrence
							3:00-4:50	F	Mr. W. Taylor and Miss Lawrence
		Consent of Dept.	2	2			7:00-10:00 P.M.	WTh	Mr. W. Taylor and Miss Lawrence
Principles of Church Music	350-3		1				To be arranged		Mr. C. Taylor
Organ in the Church Service	351-3			1			To be arranged		Mr. Morgan
Choir in the Church Service	352-3				1		To be arranged		Mr. C. Taylor
Chamber Music (Strings)	355-1		1	1			12:00-12:50	M	Mr. Wharton
Chamber Music (Woodwinds)	365-1		1	1			12:00-12:50	Tu	Mr. Resnick
Chamber Music (Brasses)	365-1		2	2			12:00-12:50	Tu	Mr. Resnick
Symphonic Literature	411-3	330, 331, 332	1				1:00-1:50	M W F	Staff
Choral Literature	412-3	330, 331, 332		1			1:00-1:50	M W F	Staff
Chamber Music Literature	413-3	330, 331, 332			1		1:00-1:50	M W F	Staff
Sixteenth-Century Counterpoint	441-2	207	1				2:00-2:50	Tu Th	Mr. Denker
Eighteenth-Century Counterpoint	442-2	207		1			2:00-2:50	Tu Th	Mr. Denker
Canon and Fugue	443-2	442			1		2:00-2:50	Tu Th	Mr. Denker
Teaching General Music in the Junior and Senior High School	451-2		1				4:00-4:50	Tu Th	Mr. C. Taylor
Teaching Techniques and Materials for Intermediate Levels	461-2	Consent of Dept.		1			1:00-1:50	Tu Th	Staff
Teaching Techniques and Materials Private Piano	462-2	461			1		1:00-1:50	Tu Th	Mr. Denker
	471-2 or 4		1	1			To be arranged	Alg 245	Mr. Denker
			2	2			To be arranged	Alg 247	Mr. Barwick
Private Voice	472-2 or 4		1	1			To be arranged	Alg 246	Mr. W. Taylor
			2	2			To be arranged	Alg 238	Mrs. MacClintock
			3	3			To be arranged	Alg 106	Miss Lawrence
Private Violin	473A-2 or 4		1	1			To be arranged	Aud 111	Staff

Private Viola	473B-2 or 4	1	1	1	To be arranged	Alg 219	Mr. Wharton
Private Cello	473C-2 or 4	1	1	1	To be arranged	Aud 111	Mr. Baker
Private String Bass	473D-2 or 4	1	1	1	To be arranged	Aud 111	Mr. Ficocelli
Private Flute	474A-2 or 4	1	1	1	To be arranged	Aud 201	Mr. Resnick
Private Oboe	474B-2 or 4	1	1	1	To be arranged	Alg 231	Mr. Forman
Private Clarinet	474C-2 or 4	1	1	1	To be arranged	Aud 201	Mr. Resnick
Private Bassoon	474D-2 or 4	1	1	1	To be arranged	Alg 231	Mr. Forman
Private Saxophone	474E-2 or 4	1	1	1	To be arranged	Aud 201	Mr. Resnick
Private Trumpet	475A-2 or 4	1	1	1	To be arranged	Aud 202	Mr. Olsson
Private Organ	476-2 or 4	1	1	1	To be arranged	Alg 243	Mr. Morgan

Introduction to Graduate Study in Music	501-3	1			3:00-3:50	M	W	F	Alg 105	Mr. Morgan
History and Analysis of Music Style	502-3	1	1		2:00-2:50	M	W	F	Alg 106	Mr. Mueller
History of Opera	512-3	1	1		11:00-11:50	M	W	F	Alg 244	Mrs. MacClintock
Seminar in Music History and Literature	522-3				To be arranged				Alg 105	Mr. Morgan
Advanced Composition	531-2 to 9	1	1		2:00-2:50	Tu	Th		Alg 233	Mr. Botje
Contemporary Idioms	535-3	1			1:00-1:50	M	W	F	Alg 233	Mr. Botje
Philosophies of Music Theory	545-3	1	1		4:00-4:50	M	W	F	Alg 106	Mr. Mueller
Organization and Administration of Music (Elementary)	550-2		1		2:00-2:50	Tu	Th		USch 201	Mr. Thomas
Organization and Administration of Music (Secondary)	551-2	1			2:00-2:50	Tu	Th		USch 201	Mr. C. Taylor
Advanced Conducting	556-2 to 6				To be arranged				Aud 111	Mr. Ficocelli
Seminar in Music Education	560-2 to 3	1	1		3:00-3:50	Tu	Th		Alg 248	Mr. Thomas
Instrumental Ensemble	566-1 to 4	1	1		To be arranged					Staff
Vocal Ensemble	567-1 to 4	1	1		To be arranged					Staff
Opera Workshop	568-2 to 4	1	1		4:00-4:50	Tu	Th		Alg 115	Mr. W. Taylor and Miss Lawrence
					3:00-5:00			F	Alg 115	Mr. W. Taylor and Miss Lawrence
		2	2	2	7:00-10:00 P.M.			WTh	Alg 115	Mr. W. Taylor and Miss Lawrence
Private Piano	571-4	1	1	1	To be arranged				Alg 245	Mr. Denker
		2	2	2	To be arranged				Alg 247	Mr. Barwick
Thesis	599-3 to 9	1	1	1	To be arranged				Alg 103	Staff

Private instruction in applied music is available to only a limited number of students, and music majors receive priority for these courses. Students who are not music majors must receive permission in writing from the chairman of the Department of Music and from the instructor concerned before they may register for these courses. All students receiving private instruction in applied music are required to keep Mondays from 10:00 to 10:50 free from work hours and other meetings to attend weekly class recitals held in the studio of their major applied instrument or voice instructor.

Private lesson appointments must be made with the individual instructor on the first day of the term.

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
			F	W	S				
NURSING (NURS)									
Introduction to Nursing I	101-1		1			8:00-9:50	W	HEc 128	Miss Harrison
			2			10:00-11:50	Tu	HEc 128	Miss Harrison
Introduction to Nursing II	102-2			1		2:00-2:50	M	HEc 128	Miss Harrison
				2		2:00-2:50	Tu Th	HEc 128	Miss Harrison
Growth and Development of the Individual I	219-4	Psys. 201	1			3:00-3:50	MTuWTh	HEc 128	Mrs. Wyatt
Growth and Development of the Individual II	220-2	219		1		4:00-4:50	Tu Th	HEc 128	Mrs. Wyatt
Foundations of Patient Care	224-2	Nursing Major	1			9:00-9:50	MTu Th	HEc 128	Miss Jimison
			2			9:00-9:50	Tu Th	HEc 128	Miss Jimison
Medical-Surgical Nursing I	226-4	224, Micr. 100		1		10:00-10:50	M	HEc 128	Miss Jimison
						11:00-11:50	MTuWTh	HEc 128	Miss Jimison and Staff
Medical-Surgical Nursing I Practicum	226A-2	224, Micr. 100		1		8:00-10:30	MTu	Hospital	Miss Jimison and Staff
				2		8:00-10:30	WTh	Hospital	Miss Jimison and Staff
Medical-Surgical Nursing II	230-4	226, 226A		T3		8:00-10:30	FS	Hospital	Miss Jimison and Staff
Medical-Surgical Nursing II Practicum	230A-4	226, 226A			1	3:00-3:50	MTuWTh	HEc 128	Miss Jimison and Staff
					1	7:00-12:00	MTuW	Hospital	Miss Jimison and Staff
					2	12:30-1:30	TuW	Hospital	Miss Jimison and Staff
						7:00-12:00	ThFS	Hospital	Miss Jimison and Staff
						12:30-1:30	ThF	Hospital	Miss Jimison and Staff
History and Philosophy of Nursing	305-4	Nursing Major	1			4:00-4:50	MTuWTh	HEc 128	Mrs. Wyatt
Introduction to Administration in Nursing Services	309-4	Nursing Major	1			6:00-8:30 P.M.	Tu	HEc 128	Mrs. Wyatt
						Plus 4 hours to be arranged			
					1	9:00-11:30	M	HEc 128	Mrs. Wyatt
Normal Growth and Development	310-4	Psys. 201		1		Plus 4 hours to be arranged			
Interpersonal Relations in Nursing	311-4	Psys. 201		1		3:00-3:50	MTuWTh	HEc 128	Mrs. Wyatt
						6:00-8:30 P.M.	Th	HEc 128	Mrs. Burton
Teaching in Nursing	312-4	Psys. 201		1		Plus 4 hours to be arranged			
						1:00-1:50	MTuWTh	HEc 128	Mrs. Wyatt

Current Developments in Nursing	354-4	Nursing Major	1	4:00-4:50	MTuWTh	HEc 128	Miss Harrison
Comprehensive Nursing	361-2	375, 380	1	To be arranged		Hospital	Mrs. Breniman
Comprehensive Nursing Practicum	361A-6	375, 380	1	7:00-12:00	TuWThF	Hospital	Mrs. Breniman
Senior Nursing	362-8	361, 361A	1	To be arranged		Hospital	Mrs. Wyatt
Principles of Public Health Nursing	375-4	Nursing Major	1	To be arranged		Health Dept	Mrs. Burton
Public Health Nursing Practicum	380-8	Nursing Major	1	To be arranged		Health Dept	Mrs. Burton
General Nursing	385-2	Nursing Major	1	9:00-10:50	M	Hospital	Mrs. Breniman
			1	6:00-7:50 p.m.	M	HEc 128	Mrs. Breniman
General Nursing Practicum	386-2 to 6	Nursing Major	1	To be arranged		Hospital	Mrs. Breniman

PHILOSOPHY (PHIL.)

Science and Nature of the World	100-2		1	10:00-10:50	W F	A 102	Mr. Plochmann
Practical Logic I	120-2		1	10:00-10:50	W F	P 308	Mr. Moore
			1	10:00-10:50	W S	M 102	Mr. McClure
			1	10:00-10:50	W S	M 102	Staff
Practical Logic II	121-2		2	10:00-10:50	W F	HEc 208	Staff
			1	3:00-3:50	Tu Th	M 102	Staff
Ideas of Good and Evil	140-2		1	12:00-12:50	Tu Th	A 102	Mr. McClure
			1	10:00-10:50	W F	HEc 208	Mr. Diefenbeck
			2	11:00-11:50	Tu Th	A 102	Mr. Plochmann
Meaning of Art	160-2		2	11:00-11:50	W S	P 107	Mr. McClure
Values in the Modern World	170-3		1	10:00-10:50	W F	M 210	Mr. Diefenbeck
			1	9:00-9:50	W F	HEc 208	Mr. Harris
Types of Philosophy	200-4		1	9:00-9:50	MTuWTh	M 214	Mr. McClure
Metaphysics	300-4		1	2:00-2:50	MTuWTh	HEc 208	Mr. Plochmann
Philosophy of Religion	301-4		1	11:00-11:50	MTuWTh	HEc 208	Mr. Harris
World Religions	302-4		1	11:00-11:50	MTuWTh	HEc 208	Mr. Harris
Oriental Philosophy	303-4		1	11:00-11:50	MTuWTh	HEc 208	Mr. Plochmann
General Logic	320-4		1	2:00-2:50	MTuWTh	HEc 208	Mr. Plochmann
Elementary Ethics and Politics	340-4		1	2:00-2:50	MTuWTh	M 214	Mr. McClure
Philosophy of Education ¹	355-4		1	8:00-8:50	MTuWTh	HEc 208	Mr. Moore
Philosophy of Art	360-4		1	7:35-9:15 p.m.	Tu Th	HEc 208	Mr. Tenney
				Plus 4 extra sessions			
Greek and Early Christian Philosophy	381-4		1	1:00-1:50	MTuWTh	HEc 208	Mr. Diefenbeck
Medieval and Early Modern Philosophy	382-4		1	1:00-1:50	MTuWTh	HEc 208	Mr. Diefenbeck
Recent Philosophy	383-4		1	1:00-1:50	MTuWTh	HEc 208	Mr. Diefenbeck
American Philosophy	386-4		1	2:00-2:50	MTuWTh	HEc 208	Mr. Moore

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
PHILOSOPHY (PHIL) (Continued)								
Logic of the Social Sciences ²	415-3			1	To be arranged			Mr. McClure
Advanced Logic	420-4			1	To be arranged			Mr. Plochmann
Mathematical Logic I	422-3		1		To be arranged			Mr. McClure
Mathematical Logic II	423-3			1	To be arranged			Mr. McClure and Mr. Kenner
Logic of the Exact Sciences	424-3			1	To be arranged			Mr. McClure and Mr. Kenner
Philosophy of Politics ³	441-4			1	3:00-3:50	MTuWTh	M 214	Mr. Diefenbeck
Philosophy of History	443-4			1	3:00-3:50	MTuWTh	HEc 208	Mr. Diefenbeck
Special Problems: Psychological Sources of Ethics	490-3		1		3:00-5:30	F	HEc 207D	Mr. Wieman
Special Problems: Sociological Sources of Ethics	490-3			1	3:00-5:30	F	HEc 207D	Mr. Wieman
Special Problems: Metaphysical Sources of Ethics	490-3			1	3:00-5:30	F	HEc 207D	Mr. Wieman
Special Problems: Dominant Religious Philosophies	490-3		2		4:00-6:30	M	HEc 207D	Mr. Wieman
Special Problems: Pre-suppositions of Nature	490-3 to 4			2	4:00-6:30	Th	HEc 207D	Mr. Diefenbeck
Special Problems	490-1 to 4		3	2	To be arranged			Staff
Seminar in Philosophy of Religion	501-3 to 4			1	7:00-9:30 p.m.	W	HEc 207D	Mr. Harris
Seminar in Aristotle	582-3 to 4			1	7:00-9:30 p.m.	W	HEc 208	Mr. Plochmann
General Seminar: James' Theory of Human Nature ¹	589-3 to 4		1		4:00-6:30	Tu	HEc 208	Mr. Axtelle
General Seminar: James' Pragmatism ¹	589-3 to 4			1	4:00-6:30	Tu	HEc 208	Mr. Axtelle
General Seminar: Bergson ¹	589-3 to 4			1	4:00-6:30	Tu	HEc 208	Mr. Axtelle
General Seminar: Wittgenstein	590-3 to 4		1		7:00-9:30 p.m.	W	HEc 208	Mr. Axtelle
General Seminar	590-2 to 5		2	1	To be arranged			Staff
Readings in Philosophy	591-1 to 5		1	1	To be arranged			Staff
Thesis	599-2 to 9		1	1	To be arranged			Staff

¹ Cross-listed with Educational Administration and Supervision.² Cross-listed with Sociology.³ Cross-listed with Government.

PHYSICAL EDUCATION—MEN (PEM)

Adapted and Restricted Physical Education		FRESHMAN REQUIRED PHYSICAL EDUCATION		EDUCATION		Mr. Greene			
Varsity Football	170-2	Consent of Dept	1	1	11:00-11:50	M	W	F	Quon
Varsity Basketball	171-2	Consent of Dept	2	2	12:00-12:50	M	W	F	Quon
Varsity Track	172-2	Consent of Dept	1	1	3:00-3:50	MTuWThF			Field
Varsity Tennis	173-2	Consent of Dept			3:00-3:50	MTuWThF			Gym 207
Varsity Gymnastics	174-2	Consent of Dept			3:00-3:50	MTuWThF			Stadium
Varsity Baseball	175-2	Consent of Dept			3:00-3:50	MTuWThF			Tennis
Varsity Golf	176-2	Consent of Dept			To be arranged				Gym 207
Varsity Swimming	177-2	Consent of Dept			3:00-3:50	MTuWThF			Field
Varsity Cross Country	178-2	Consent of Dept			4:00-4:50	MTuWThF			To be arranged
Varsity Wrestling	179-2	Consent of Dept	1	1	3:00-3:50	MTuWThF			Pool
Personal Design for Better Living	180-1		1	1	8:00-8:50	M	W	Th	Stadium
					8:00-8:50	M	W	Th	Quon
					8:00-8:50	M	W	Th	Wrest
					8:00-8:50	M	W	Th	Gym 204
					8:00-8:50	W	W	FS	Quon
					8:00-8:50	W	W	FS	Quon
					8:00-8:50	W	W	FS	M 111
					9:00-9:50	M	W	Th	Quon
					9:00-9:50	M	W	Th	Quon
					9:00-9:50	M	W	Th	HEc 302
					9:00-9:50	M	W	Th	HEc 118
					9:00-9:50	W	W	FS	Quon
					9:00-9:50	W	W	FS	Quon
					9:00-9:50	W	W	FS	M 213
					10:00-10:50	W	W	FS	Quon
					10:00-10:50	W	W	FS	Quon
					10:00-10:50	W	W	FS	Gym 204
					11:00-11:50	Tu	Th	S	Quon
					12:00-12:50	M	W	F	Quon
					1:00-1:50	M	W	F	Quon
					1:00-1:50	M	W	F	Quon
					1:00-1:50	M	W	F	HEc 201
					2:00-2:50	M	W	F	Quon
					2:00-2:50	M	W	F	Quon
					2:00-2:50	M	W	F	Gym 203
					6:00-7:15 P.M.	M	W		Quon
					6:00-7:15 P.M.	Tu	Th		Quon
					8:00-8:50	M	W	Th	Field
					8:00-8:50	Tu	Th		Field
Volleyball and Touch Football	184-1		T1	2					

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
PHYSICAL EDUCATION—MEN (PEM) (Continued)								
Volleyball and Touch Football	184-1		F	W	S			
		3			9:00-9:50	M WTh	Field	Staff
		4			9:00-9:50	Tu FS	Field	Staff
		5			10:00-10:50	W FS	Field	Staff
		6			11:00-11:50	M WTh	Field	Staff
		7		T1	11:00-11:50	Tu FS	Field	Staff
		T8			12:00-12:50	M W F	Field	Staff
		9		T2	12:00-1:15	Tu Th	Field	Staff
		10			1:00-1:50	M W F	Field	Staff
		T11			1:00-2:15	Tu Th	Field	Staff
		12			2:00-2:50	M W F	Field	Staff
		T13			2:00-3:15	Tu Th	Field	Staff
		Soccer	185-1	T1		1	8:00-8:50	M WTh
2					9:00-9:50	Tu FS	Field	Staff
3					9:00-9:50	Tu FS	Field	Staff
4					10:00-10:50	W FS	Field	Staff
5					11:00-11:50	M WTh	Field	Staff
T6					11:00-11:50	Tu FS	Field	Staff
7					12:00-12:50	M W F	Field	Staff
T8					12:00-1:15	Tu Th	Field	Staff
9					1:00-1:50	M W F	Field	Staff
T10					1:00-2:15	Tu Th	Field	Staff
Speedball	186-1	T12			2:00-2:50	M W F	Field	Staff
		13			2:00-3:15	Tu Th	Field	Staff
		1			9:00-9:50	M WTh	Field	Staff
		2		T1	10:00-10:50	W FS	Field	Staff
		T3			11:00-11:50	M WTh	Field	Staff
Personal Defense and Softball	188-1	T4			2:00-2:50	M W F	Field	Staff
		T1		T1	8:00-8:50	MTu Th	Quon	Staff
		T2		2	8:00-8:50	W FS	Quon	Staff
				T3	9:00-9:50	MTu Th	Quon	Staff
		4			9:00-9:50	W FS	Quon	Staff
		5			10:00-10:50	W FS	Quon	Staff
		6			11:00-11:50	MTu Th	Quon	Staff
		T7		T7	11:00-11:50	W FS	Quon	Staff
		T8		T8	12:00-12:50	M W F	Quon	Staff
		9			12:00-1:15	Tu Th	Quon	Staff
		4		1:00-1:50	M W F	Quon	Staff	

Basketball and Track	189-1	11	1:00-2:15	Tu	Th	Quon	Staff
		T12	2:00-2:50	M	W F	Quon	Staff
		13	2:00-3:15	Tu	Th	Quon	Staff
		1	8:00-8:50	M	W F	Gym	Staff
		2	9:00-9:50	M	W F	Gym	Staff
		3	10:00-10:50	W	FS	Gym	Staff
		T4	11:00-11:50	M	W F	Gym	Staff
		5	11:00-11:50	Tu	Th S	Gym	Staff
		6	12:00-12:50	M	W F	Gym	Staff
		T7	1:00-1:50	M	W F	Gym	Staff
Wrestling	190-1	8	2:00-2:50	M	W F	Gym	Staff
		1	8:00-8:50	M	WTh	Quon	Staff
		2	8:00-8:50	Tu	FS	Quon	Staff
		3	9:00-9:50	M	WTh	Quon	Staff
		4	9:00-9:50	Tu	FS	Quon	Staff
		5	11:00-11:50	M	WTh	Quon	Staff
		6	11:00-11:50	Tu	FS	Quon	Staff
		T2	2:00-2:50	M	WTh	Quon	Staff
		7	7:00-8:15 P.M.	M	W	Quon	Staff
		1	11:00-11:50	M	W F	Stadium	Staff
Cross Country	191-1	2	12:00-12:50	MTu	Th	Stadium	Staff
		T3	1:00-2:15	Tu	Th	Stadium	Staff
		T4	2:00-3:15	Tu	Th	Stadium	Staff
		1	10:00-10:50	W	FS	Quon	Staff
		T2	5:00-6:15 P.M.	Tu	Th	Quon	Staff
		1	8:00-8:50	M	W F	Gym 207	Staff
		T2	8:00-8:50	Tu	Th S	Gym 207	Staff
		T1	9:00-9:50	M	W F	Gym 207	Staff
		3	11:00-11:50	M	W F	Gym 207	Staff
		4	11:00-11:50	Tu	Th S	Gym 207	Staff
Track and Field	194-1	5	12:00-12:50	M	W F	Gym 207	Staff
		T2	9:00-9:50	M	W F	Stadium	Staff
		T1	11:00-11:50	M	W F	Stadium	Staff
		3	12:00-12:50	M	W F	Stadium	Staff
		T4	2:00-2:50	M	W F	Stadium	Staff
		1	8:00-8:50	M	W F	Pool	Staff
		2	9:00-9:50	M	W F	Pool	Staff
		3	11:00-11:50	M	W F	Pool	Staff
		4	12:00-12:50	M	W F	Pool	Staff
		5	1:00-1:50	M	W F	Pool	Staff
Beginning Swimming	198-1	6	4:00-4:50	MTuWTh	S	Pool	Staff
		1	10:00-11:50	M	WTh	Pool	Staff
		1	8:00-8:50	M	W F	Pool	Staff
Beginning Swimming (1st 6 weeks)	198-1	1	8:00-8:50	M	W F	Pool	Staff
		1	8:00-8:50	M	W F	Pool	Staff
		2	9:00-9:50	M	W F	Pool	Staff
		3	11:00-11:50	M	W F	Pool	Staff
		4	12:00-12:50	M	W F	Pool	Staff
		5	1:00-1:50	M	W F	Pool	Staff
		6	4:00-4:50	MTuWTh	S	Pool	Staff
		1	10:00-11:50	M	WTh	Pool	Staff
		1	8:00-8:50	M	W F	Pool	Staff
		1	8:00-8:50	M	W F	Pool	Staff

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
PHYSICAL EDUCATION—MEN (PEM) (continued)								
Intermediate Swimming	199-1		F	W	S			
			2	1	8:00-9:50	M	Pool	Staff
			3	2	9:00-9:50	W	Pool	Staff
			4	3	11:00-11:50	M	Pool	Staff
			5	4	12:00-12:50	W	Pool	Staff
			6	5	1:00-1:50	M	Pool	Staff
					7:35-9:15 P.M.	Tu	Pool	Staff
				5	7:35-9:00 P.M.	M	Pool	Staff
SOPHOMORE REQUIRED PHYSICAL EDUCATION								
American Square Dancing and Mixers	208-1 ¹		1		1:00-1:50	Tu	Gym 207	Mr. Franklin
				1	11:00-11:50	Tu	Gym 114	Miss Stehr
				2	2:00-2:50	Tu	Gym 114	Miss Thorpe
Tap Dancing	224-1 ¹			3	12:00-12:50	Tu	Gym 114	Staff
				1	1:00-1:50	Tu	Gym 114	Miss Stehr
				T2	1:00-1:50	M	Gym 114	Staff
Social Dance	239-1 ¹		1		12:00-12:50	Tu	Gym 114	Mrs. Daqqaq
				1	9:00-9:50	Tu	Gym 114	Mrs. Daqqaq
				T2	5:00-5:50	M	Gym 114	Staff
				T3	5:45-6:35 P.M.	Tu	Gym 114	Staff
				T4	3:00-3:50	Tu	Gym 114	Staff
Adapted and Restricted Physical Education	249-1		1		11:00-11:50	Tu	Quon	Staff
			2	2	12:00-12:50	Tu	Quon	Staff
			1	1	8:00-8:50	Tu	Bowling A	Staff
			2	2	9:00-9:50	Tu	Bowling A	Staff
			3	3	11:00-11:50	Tu	Bowling A	Staff
			4	4	12:00-12:50	Tu	Bowling A	Staff
Bowling (Fee Required)	254-1 ¹		T5	T5	1:00-1:50	Tu	Bowling A	Staff
			T6	T6	2:00-2:50	Tu	Bowling A	Staff
			T7	T7	3:00-3:50	Tu	Bowling A	Staff
			T8	T8	4:00-4:50	Tu	Bowling A	Staff
			9	9	5:00-5:50	M	Bowling A	Staff
			10	10	6:00-6:50	M	Bowling A	Staff
			T11	T11	7:00-7:50	M	Bowling A	Staff
			T12	T12	8:00-8:50	M	Bowling A	Staff
			T1	T1	9:00-9:50	M	Bowling A	Staff
			T2	T2	10:00-10:50	M	Bowling A	Staff
Golf	280-1							

Golf	280-1	4	3	9:00-9:50	M	W	Gym 207	Staff
		5	4	9:00-9:50	Tu	Th	Gym 207	Staff
		T6	5	10:00-10:50	W	F	Gym 207	Staff
Golf (1st 7 weeks)	280-1	T7	T6	10:00-11:50	M	WTh	Gym 207	Staff
Golf (1st 7 weeks)	280-1	8	T7	11:00-11:50	Tu	Th	M 108	Staff
Golf (1st 7 weeks)	280-1	9	T7	11:00-11:50	M	WTh	Gym 207	Staff
Golf (1st 7 weeks)	280-1	10	T7	11:00-12:50	MTu	Th	Gym 207	Staff
		T11	8	12:00-12:50	M	W	Gym 207	Staff
		T12	9	12:00-12:50	Tu	Th	Gym 207	Staff
Golf (1st 7 weeks)	280-1	13		1:00-1:50	MTu	Th	Gym 207	Staff
Golf	280-1	T14	10	1:00-1:50	M	W	Gym 207	Staff
			T11	1:00-1:50	Tu	Th	Gym 207	Staff
		T15		1:00-2:50	MTu	Th	Gym 207	Staff
Golf (1st 7 weeks)	280-1	T16		2:00-2:50	W	F	Gym 207	Staff
Golf	280-1	17		2:00-2:50	M	W	Gym 207	Staff
		T18	12	2:00-2:50	Tu	Th	Gym 207	Staff
		19	13	2:00-2:50	M	W	Gym 207	Staff
		T20	14	3:00-3:50	M	W	Gym 207	Staff
		T21	T15	3:00-3:50	Tu	Th	Gym 207	Staff
		T22	T16	3:00-4:50	M	W	Gym 207	Staff
			T17	4:00-4:50	Tu	Th	Gym 207	Staff
			T18	4:00-4:50	Tu	Th	Gym 207	Staff
Fly and Bait Casting (1st 7 weeks)	281-1	1		8:00-8:50	F		Stadium	Mr. Franklin
		2		9:00-9:50	Tu	Th	Stadium	Mr. Franklin
Fly and Bait Casting (1st 7 weeks)	281-1			11:00-11:50	MTu	Th	Stadium	Mr. Franklin
Fly and Bait Casting	281-1		1	8:00-8:50	Tu	Th	Stadium	Mr. Franklin
			2	9:00-9:50	Tu	Th	Stadium	Mr. Franklin
Weight Lifting	283-1	T1	T1	8:00-8:50	M	W	Quon	Staff
		2		8:00-8:50	Tu	F	Quon	Staff
		3		8:00-8:50	Tu	Th	Quon	Staff
		4		8:00-8:50	Tu	Th	Quon	Staff
		T5	T2	2:00-2:50	M	W	Quon	Staff
		T6	3	7:00-7:50 P.M.	Tu	Th	Quon	Staff
			1	7:00-7:50 P.M.	Tu	Th	Quon	Staff
			2	1:00-2:50	Tu	Th	Gym 207	Staff
Ice Skating (Fee Required)	284-1	T1	T2	1:00-2:50	M	W	Gym	Staff
		T2	1	8:00-8:50	Tu	Th	Gym	Staff
Basketball	285-1		2	8:00-8:50	M	W	Gym	Staff
			3	8:00-8:50	Tu	Th	FS	Staff
			4	8:40-9:20	M	W	Gym	Staff

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
PHYSICAL EDUCATION—MEN (PEM) (Continued)								
Methods and Materials of Teaching Swimming	117-1		F	W	S			
			1			M	8:00-8:50	Mr. Casey
			2			M	9:00-9:50	Mr. Casey
					1	M	8:00-9:50	Mr. Casey
					2	W	10:00-11:50	Mr. Casey
Methods and Materials of Teaching Tennis	118-1		1			M	8:00-8:50	Mr. LeFevre
			2			M	9:00-9:50	Mr. LeFevre
Methods and Materials of Teaching Golf	119-1		1			Tu	8:00-8:50	Mr. Holder
			2			Tu	9:00-9:50	Mr. Holder
Freshman Required Physical Education	181-1		1			MTu	8:00-8:50	Mr. Casey
Team Games I			2			M	12:00-12:50	Mr. Martin
Freshman Required Physical Education	182-1		1			M	1:00-1:50	Mr. Franklin
Basic Rhythms I			2			M	2:00-2:50	Mr. Franklin
Freshman Required Physical Education	183-1		1			M	12:00-12:50	Staff
Team Games II			2			M	1:00-1:50	Staff
Sophomore Required Physical Education	208-1 ¹		1			W	10:00-10:50	Mr. Franklin
			2			M	2:00-3:50	Mr. Cross
American Square Dancing and Mixers						Tu	Th	Mr. Franklin
Methods and Materials of Coaching Track and Field	215-2		1			MTuWTh	Stadium	Mr. Hartzog
			2			MTuWTh	Stadium	Mr. Hartzog
Methods and Materials of Coaching Basketball	216-2		1			MTuWTh	Gym 207	Mr. Gallatin
			2			MTuWTh	Gym 207	Mr. Gallatin
			2			Tu	Th	Mr. Gallatin
Methods and Materials of Coaching Football	217-2		1			M	1:00-2:50	Mr. Piccone
						M	2:00-3:50	Mr. Piccone
			2			M	2:00-3:50	Mr. Cross
Sophomore Required Physical Education	261-1		1			8:00-9:50	F	Mr. Franklin
Fly and Bait Casting (1st 7 weeks)			2			M	9:00-9:50	Mr. Franklin
						9:00-10:50	Stadium	Mr. Franklin
						10:00-10:50	Stadium	Mr. Franklin
						11:00-11:50	Stadium	Mr. Franklin
						11:00-11:50	Bowling A	Staff
						12:00-12:50	Bowling A	Staff
Sophomore Required Physical Education	263-1							
Bowling (Fee Required)								
Kinesiology	303-5 ¹	Phsl. 209, 300	T1	1		MTuWThF	Gym 204	Mr. Lingle
						MTuWThF	Gym 204	Miss Thorpe
						MTuWThF	Gym 204	Mr. Lingle

Physical Education for the Atypical Student	305-2	Phsl. 209, 300	1	9:00-9:50	Tu	Th	Gym 203	Mr. Greene
Theory of Basketball Coaching	330A-2	216	1	10:00-10:50	W	F	Gym 203	Mr. Greene
				10:00-10:50	W	F	Gym 203	Mr. Gallatin
Theory of Football Coaching	330B-2	217	1	12:00-12:50	M	W	Gym 203	Mr. Gallatin
				1:00-1:50	M	W	Gym 203	Mr. Piccone
Theory of Swimming Coaching	331A-2	Consent of Chairman	1	1:00-1:50	M	W	Gym 203	Mr. Casey
Theory of Baseball Coaching	331B-2	115	1	9:00-9:50	M	W	Gym 204	Mr. Martin
Theory of Track and Field Coaching	331C-2	215	1	9:00-9:50	Tu	Th	Gym 204	Mr. Hartzog
Theory of Wrestling Coaching	331D-2	Consent of Chairman	1	7:15-9:25 p.m.	Tu	Th	Gym 203	Mr. Wilkinson
Theory of Tennis Coaching	331E-2	Consent of Chairman	1	8:00-8:50	Tu	Th	M 106	Mr. LeFevre
Theory of Gymnastic Coaching	331F-2	Consent of Chairman	1	2:00-2:50	Tu	Th	Gym 203	Mr. Meade
Principles of Physical Education	341-3	Senior Status	TI	8:00-8:50	MTuW		Gym 203	Mr. Lingle
				8:00-8:50	Tu	ThF	Gym 203	Mr. Lingle
Methods and Materials of Teaching	350-3		1	8:00-8:50	MTuWTh		Gym 203	Mr. Franklin
Physical Education Activities in Elementary School			TI	11:00-11:50	MTuWTh		Gym 203	Mr. Franklin
Organization and Administration of Physical Education and Athletics	354-4		1	1:00-1:50	MTuWTh		Gym 203	Mr. Franklin
				1:00-1:50	MTuW	F	Gym 203	Mr. Shea
Tests and Measurements in Physical Education	370-3 to 4 ¹		1	9:00-9:50	MTuW	F	Gym 203	Mr. Shea
				9:00-9:50	MTuW	F	Gym 203	Mr. Shea
				8:00-8:50	MTuWTh		Gym 204	Miss West
Emergency Care and Prevention of Athletic Injuries	376-3	Phsl. 209, 300	1	12:00-12:50	MTuWTh		Gym 203	Mr. Franklin
				11:00-11:50	MTuWTh		Gym 203	Mr. Franklin
				12:00-12:50	MTuWTh		Gym 204	Mr. Spackman
				1:00-1:50	MTuWTh		Gym 204	Mr. Spackman
Evaluation in Physical Education	400-4 ¹		1	7:00-9:30 p.m.	Th		Gym 203	Staff
				Plus 4 extra sessions				
Organization and Administration of Intramurals and Extra-Mural Activities	402-3 ¹		1	7:00-9:30 p.m.	W		Gym 203	Mr. Wilkinson
Teaching of Sports	404-4 ¹		1	7:00-9:30 p.m.	M		Gym 203	Mr. Wilkinson
				Plus 4 extra sessions				
Basic Concepts in Physical Education	406-4 ¹		1	9:00-10:30	S		Gym 203	Mr. Shea
Physical Fitness: Its Role and Application in Physical Education	408-4 ¹		1	Plus 4 extra sessions	Tu		Gym 203	Mr. Bender
Physiological Effects of Motor Activity	420-3 ¹		1	7:00-9:30 p.m.	Tu		Gym 203	Mr. Bender
Techniques of Research	500-4 ¹	400	1	7:00-9:30 p.m.	W		Gym 204	Miss Zimmerman
Curriculum in Physical Education	501-4 ¹		1	7:00-9:30 p.m.	M		Gym 206	Miss Davies
Foundations of Motor Skills	502-4 ¹		1	7:00-9:30 p.m.	M		Gym 204	Miss Zimmerman

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
			F	W	S			
PHYSICAL EDUCATION—MEN (PEM) (Continued)								
Seminar in Physical Education	503-4 ¹							
Problems in Physical Education	504-4 ¹	500	1			W	Gym 204	Mr. Casey
						Th	Gym 203	Mr. Bender
Supervision in Physical Education	509-4 ¹					Tu	Gym 204	Miss Zimmerman
Motor Development of Pre-Adolescents	510A-2 ¹					Th	Gym 204	Miss Zimmerman
Motor Development of Adolescents	510B-2 ¹					Th	Gym 204	Miss Zimmerman
Readings in Physical Education	525-1 to 6 ¹					Th	Gym 204	Miss Zimmerman
	599-6 to 9 ¹		1	1		To be arranged		Staff
Thesis			1	1		To be arranged		Staff

¹ Cross-listed with Physical Education for Women.

PHYSICAL EDUCATION—WOMEN (PEW)								
Orientation	025-0 ¹		1		1:00-1:50	Tu	Gym 206	Staff
Beginning Swimming	100-1		1	1	10:00-10:50	TuW	Pool	Staff
			2	2	2:00-2:50	M W F	Pool	Staff
				2 ¹	2:00-2:50	M W F	Pool	Miss Cobb
			3	3	3:00-3:50	M W F	Pool	Staff
			4	4	7:30-9:00 P.M.	M Th	Pool	Staff
Individual Physical Education	101A-1		1		10:00-10:50	TuW	Gym 208	Miss Wood
			T2		2:00-2:50	M W F	Gym 208	Staff
			1		8:00-9:50	W S	Gym 114	Staff
Speedball	101B-1		2		10:00-11:50	W S	Gym 114	Staff
			3 ¹		12:00-1:50	M W	Gym 114	Miss Wood
			4		2:00-3:50	M W	Gym 208	Miss Wood
Hockey	101H-1		1		8:00-9:50	M	Gym 114	Miss Cobb
			2		8:00-9:50	Tu Th	Gym 114	Miss Cobb
			3		10:00-11:50	Tu	Gym 114	Miss Cobb
			4		12:00-1:50	Tu Th	Gym 208	Miss Stehr
			5		2:00-3:50	Tu Th	Gym 114	Miss West
				1	8:00-8:50	Tu Th S	Gym 114	Miss Young
				2	9:00-9:50	Tu Th S	Gym 208	Staff
				3	12:00-12:50	M W F	Gym 208	Miss Young
Basketball	102-1			4	1:00-1:50	M W F	Gym 208	Miss Wood

Individual Physical Education Volleyball and Folk Dance	102A-1	5	2:00-2:50	M W F	Gym 208	Miss Dempsey
		6	3:00-3:50	M W F	Gym 208	Staff
		7	6:00-7:25 P.M.	M W F	Gym 208	Miss Thorpe
		1	9:00-9:50	M W F	Gym 114	Miss Wood
		T2	2:00-2:50	M W F	Gym 114	Miss Thorpe
	103-1	1	8:00-8:50	Tu Th S	Gym 208	Mrs. Daqqaq
		2	9:00-9:50	Tu Th S	Gym 208	Mrs. Daqqaq
		3	10:00-10:50	TuW F	Gym 208	Staff
		4	11:00-11:50	M W F	Gym 208	Miss Cobb
		5	12:00-12:50	M W F	Gym 208	Staff
Individual Physical Education Fundamental Rhythms	103A-1 107-1	6	1:00-1:50	M W F	Gym 208	Staff
		7	2:00-2:50	M W F	Gym 208	Staff
		8	3:00-3:50	M W F	Gym 208	Staff
		T9	5:00-5:50	M W F	Gym 208	Miss West
		10	6:00-7:25 P.M.	Tu Th	Gym 208	Miss Wood
	120-1	1	2:00-2:50	M W F	Gym 114	Miss Wood
		1	8:00-8:50	M W F	Gym 208	Mrs. Daqqaq
		2	9:00-9:50	M W F	Gym 208	Mrs. Daqqaq
		2	11:00-11:50	M W F	Gym 208	Mrs. Daqqaq
		3	9:00-9:50	M W F	Gym 208	Mrs. Daqqaq
Intermediate Swimming	120-1	1 ¹	2:00-2:50	M W F	Pool	Miss West
		1	2:00-2:50	M W F	Pool	Staff
		2	3:00-3:50	M W F	Pool	Staff
		3	7:35-9:00 P.M.	M Th	Pool	Staff
		1	10:00-10:50	TuW F	Pool	Miss Thorpe
	127-1	1	9:00-9:50	M W F	M 110	Staff
		1 ¹	10:00-10:50	TuW F	Gym	Miss Wood
		1	10:00-10:50	TuW F	M 110	Staff
		2	11:00-11:50	M W F	M 110	Miss Thorpe
		2	12:00-12:50	M W F	M 110	Staff
Basic Body Movement	127-1	3	1:00-1:50	M W F	M 110	Staff
		4	2:00-2:50	M W F	M 110	Miss Wood
		5	6:00-7:25 P.M.	M W F	M 110	Miss Wood
		T3	9:00-9:50	M W F	M 110	Staff
		T4	11:00-11:50	M W F	M 110	Staff
	201A-1 202A-1	T5	1:00-1:50	Tu ThF	M 110	Staff
		T6	3:00-3:50	M W F	M 110	Staff
		T7	4:00-4:50	M W F	M 110	Staff
		T8	12:00-12:50	M W F	M 110	Staff
		1	To be arranged		Gym 104	Miss Davies
Adapted Physical Education Adapted Physical Education	201A-1 202A-1	1	To be arranged		Gym 104	Miss Davies
		1	To be arranged		Gym 104	Miss Davies

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
PHYSICAL EDUCATION—WOMEN (PEW) (Continued)								
Adapted Physical Education	203A-1	Consent of Dept.						
Intermediate Swimming	205-1	100	F	1	To be arranged 8:00-9:50	S	Gym 104 Pool	Miss Davies
			1		10:00-11:50	S	Pool	Mrs. Daqqaq
			2	1	5:45-7:30 P.M.	Tu	Pool	Mrs. Daqqaq
American Square Dance	208-1 ²		1	1	1:00-1:50	Tu Th	Gym 207	Mr. Franklin
				1	11:00-11:50	Tu Th	Gym 114	Miss Stehr
				2	2:00-2:50	Tu Th	Gym 114	Miss Thorpe
			T3		12:00-12:50	Tu Th	Gym 114	Staff
			4		10:00-10:50	W	Gym 207	Mr. Franklin
			5	5	1:00-1:50	Tu Th	Gym 207	Mr. Franklin
Basketball	212-1		1 ¹		11:00-11:50	Tu Th	Gym 208	Miss Thorpe
			2		2:00-2:50	Tu Th	Gym 208	Miss Young
Softball	213-1			1	3:00-3:50	Tu Th	Gym 114	Miss Wood
Archery	214-1		1		12:00-12:50	Tu Th	Gym 208	Miss Davies
			2		2:00-2:50	Tu Th	Gym 208	Miss Cobb
				1	1:00-1:50	Tu Th	Gym 208	Miss Cobb
Badminton	215-1		1	1	10:00-11:50	S	Gym 208	Staff
			2		11:00-11:50	Tu Th	Gym 208	Staff
			3		1:00-1:50	Tu Th	Gym 208	Staff
			4	2	3:00-3:50	Tu Th	Gym 208	Staff
			5		5:45-7:30 P.M.	M	Gym 208	Staff
			T6		5:45-7:30 P.M.	Tu	Gym 208	Staff
			T7		5:45-7:30 P.M.	W	Gym 208	Staff
			T8		5:45-7:30 P.M.	Th	Gym 208	Staff
			T9		4:00-5:50	M	Gym 208	Staff
Badminton (first six weeks)	215-1		T10	T3	5:00-5:50	Tu Th	Gym 208	Staff
Badminton	215-1		1	1	9:00-10:50	S	Gym	Staff
Tennis	216-1		2		8:00-8:50	Tu Th	Gym	Miss Young
			3	2	9:00-9:50	Tu Th	Gym	Miss Young
			4		1:00-1:50	Tu Th	Gym 114	Miss Wood
			5	3	3:00-3:50	M	Gym	Miss Dempsey
					9:00-9:50	M	Gym 114	Miss Wood
			T6		12:00-12:50	M	Gym 114	Staff
				4	1:00-1:50	Tu Th	Gym 114	Miss Wood
				5	11:00-11:50	Tu Th	Gym	Miss Young
			T7		1:00-1:50	M	Gym 114	Staff
			T8		2:00-2:50	M	Gym 114	Staff
			T9		3:00-3:50	Tu Th	Gym 114	Staff

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
PHYSICAL EDUCATION—WOMEN (PEW) (Continued)									
Kinesiology	303-5 ²	Phsl. 300	1			11:00-11:50	MTuWThF	Gym 204	Mr. Lingle
Techniques of Soccer	304-2				1	8:00-8:50	MTuWThF	Gym 204	Miss Thorpe
Techniques of Hockey	305-2	101S or 101B			2	9:00-9:50	MTuWThF	Gym 204	Mr. Lingle
Techniques of Basketball	306-2	223 or 101H	1			2:00-2:50	M W	Gym 114	Miss Thorpe
Techniques of Tumbling	307-2	Consent of Dept.	1			2:00-2:50	Tu Th	Gym 114	Miss Young
Methods of Teaching Dance	308-5			1		1:00-1:50	Tu Th	Gym	Miss West
Techniques of Softball	309-2	230 and 233		1	1	12:00-12:50	Tu Th	Gym	Miss Stehr
Theory of Officiating	311A-1	216				8:00-8:50	MTuWThF	Gym 114	Miss Davies
Theory of Officiating	311B-1	311A	1			9:00-9:50	M W	Gym 114	Miss Young
Life Saving	317-1 ²	120		1		9:00-9:50	F	Gym 206	Miss West
Teaching Elementary School	319-4		1		2	3:00-3:50	M W F	Gym 206	Miss West
			2			4:00-4:50	MTuWTh	Pool	Miss Cobb
				1	1	8:00-8:50	MTuWTh	M 110	Miss Dempsey
				2		9:00-9:50	MTuWTh	M 110	Staff
				3		3:00-3:50	MTuWTh	M 110	Miss Dempsey
					T3	4:00-4:50	MTuWTh	Gym 114	Staff
Materials and Methods-Elementary School	350-5				1	1:00-1:50	MTuWThF	M 110	Miss Zimmerman
Physical Education for Atypical	351-4			1		9:00-9:50	MTuWTh	Gym 206	Miss Davies
History of Physical Education (first 6 weeks)	352-2		1			9:00-9:50	MTuWTh	Gym 206	Miss Davies
Organization and Administration of Physical Education	353-4	354 or Consent of Dept.			1	3:00-3:50	MTuWTh	Gym 206	Miss Davies
Principles of Physical Education (second six weeks)	354-2		1			9:00-9:50	MTuWTh	Gym 206	Miss Davies
Techniques of Teaching Swimming	355-3	120	1			10:00-10:50	TuW F	Pool	Miss Cobb
Tests and Measurement in Physical Education	370-3 to 4 ²		1			8:00-8:50	MTuWTh	Gym 204	Miss West
				1	1	12:00-12:50	MTuWTh	Gym 204	Mr. Franklin
						11:00-11:50	MTuWTh	Gym 204	Mr. Franklin
Advanced Dance (Folk)	374-1	Consent of Dept.		1		10:00-10:50	TuW	Gym 114	Miss Stehr
Advanced Modern Dance	376-1 ²	233		1		10:00-10:50	Tu F	Gym 206	Mrs. Daqaq
Horseback Riding (Fee Required)	377-1 ²		1		1	10:00-11:50	W	Stables	Staff
			2		2	2:00-3:50	Th	Stables	Staff
Canoeing and Boating (Fee Required)	378-1 ²	120			T1	1:00-2:50	Tu	Lake	Staff
					2	10:00-11:50	W	Lake	Miss Cobb
					3	1:00-2:50	Th	Lake	Miss Young
					T4	9:00-10:50	F	Lake	Staff

Evaluation in Physical Education	400-4 ²	1		7:00-9:30 P.M. Plus 4 extra sessions	Th	Gym 203	Staff
Organization and Administration	402-3 ²	1		7:00-9:30 P.M.	W	Gym 203	Mr. Wilkinson
Intramurals							
Teaching of Sports	404-4	1	1	To be arranged		Gym 206	Miss Davies
Current Theories of Dance	405-4	1	1	To be arranged		Gym 206	Miss Davies
Basic Concepts of Physical Education	406-4 ²		1	8:00-10:30	S	Gym 204	Mr. Shea
				Plus 4 extra sessions			
Workshop: Physical Fitness	408-4 ²	1		7:00-9:30 P.M.	Tu	Gym 203	Mr. Bender
				Plus 4 extra sessions			
Physiological Effects of Motor Activity	420-3 ²	1		7:00-9:30 P.M.	Tu	Gym 203	Mr. Bender
Techniques of Research	500-4 ²	1		7:00-9:30 P.M.	W	Gym 204	Miss Zimmerman
Curriculum in Physical Education	501-4 ²		1	7:00-9:30 P.M.	M	Gym 206	Miss Davies
Foundations of Motor Skills	502-4 ²	1		7:00-9:30 P.M.	M	Gym 204	Miss Zimmerman
Seminar	503-4 ²		1	7:00-9:30 P.M.	W	Gym 204	Mr. Casey
Problems in Physical Education	504-4 ²	1		7:00-9:30 P.M.	Th	Gym 203	Mr. Bender
	500				Tu	Gym 204	Miss Zimmerman
Supervision of Physical Education	509-4 ²		1	7:00-9:30 P.M.	Tu	Gym 204	Miss Zimmerman
Motor Development	510A-2 ²		1	7:00-9:30 P.M.	Th	Gym 204	Staff
Motor Development	510B-2 ²		1	7:00-9:30 P.M.	Th	Gym 204	Staff
Readings in Physical Education	525-1 to 6 ²	1	1	7:00-9:30 P.M.	Th	Gym 204	Staff
Thesis	599-3 to 9 ²	1	1	To be arranged		Gym 204	Staff
		1	1	To be arranged			Staff

¹ For majors and minors only.² Cross-listed with Physical Education—Men.**PHYSICS (PHYS)**

Survey Physics

101-4		1		8:00-8:50	M	W	F	P 308	Staff
				8:00-9:50	Tu			P 317	Staff
		2		9:00-9:50	M	W	F	P 308	Staff
		3		8:00-9:50			Th	P 317	Staff
				12:00-12:50	Tu	W	Th	P 309	Staff
				12:00-1:50			F	P 317	Staff
		4		3:00-3:50	M	W	F	P 308	Staff
				3:00-4:50	Tu			P 317	Staff
		T5		6:00-7:25 P.M.	M		Th	P 309	Staff
				6:00-7:50 P.M.		W		P 317	Staff
		T6		1:00-1:50	M	W	F	P 308	Staff
				1:00-2:50		Tu		P 317	Staff

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
PHYSICS (PHYS) (Continued) Survey Physics	102-4		T1		8:00-8:50	TuWTh	P 309	Staff
					8:00-9:50	F	P 317	Staff
			T2		9:00-9:50	M W F	P 308	Staff
					8:00-9:50	Tu	P 317	Staff
			T3		12:00-12:50	TuWTh	P 309	Staff
					12:00-1:50	F	P 317	Staff
			T4		4:00-4:50	MTuW	P 309	Staff
					3:00-4:50	Th	P 317	Staff
				1	9:00-9:50	M W F	P 308	Staff
					8:00-9:50	Th	P 317	Staff
				2	12:00-12:50	M W F	P 309	Staff
					11:00-12:50	Tu	P 317	Staff
				3	1:00-1:50	M W F	P 309	Staff
					1:00-2:50	Tu	P 317	Staff
		4	3:00-3:50	M W F	P 308	Staff		
			3:00-4:50	Th	P 317	Staff		
		T5	6:00-7:25 P.M.	M W	P 308	Staff		
			6:00-7:50 P.M.	Tu	P 317	Staff		
		T6	4:00-4:50	M W F	P 309	Staff		
			3:00-4:50	Tu	P 317	Staff		
		T7	8:00-8:50	M W F	P 308	Staff		
			8:00-9:50	Tu	P 317	Staff		
College Physics	206-5	Math. 112	1		8:00-8:50	MTuW FS	P 308	Staff
					8:00-9:50	Th	P 317	Staff
			2		11:00-11:50	MTuWTh S	P 308	Staff
					10:00-11:50	F	P 317	Staff
			3		12:00-12:50	MTuW	P 308	Staff
					11:00-12:50	Th	P 317	Staff
					11:00-12:50	F	P 308	Staff
			4		1:00-1:50	M W F	P 308	Staff
					12:00-1:50	Tu	P 317	Staff
					12:00-1:50	Th	P 308	Staff
			5		2:00-2:50	M W F	P 308	Staff
					1:00-2:50	Tu	P 308	Staff
					1:00-2:50	Th	P 317	Staff
				T6	3:00-3:50	M ThF	P 308	Staff

College Physics	207-5	206	7	3:00-4:50	Tu W	P 317	Staff
				3:00-4:50	Tu ThF	P 308	Staff
				4:00-4:50	M	P 308	Staff
				4:00-5:50	W	P 317	Staff
	207-5	206	8	6:00-7:25 P.M.	M WTh	P 308	Staff
				6:00-7:50 P.M.	Tu	P 317	Staff
				11:00-11:50	MTuWTh S	P 308	Staff
				10:00-11:50	F	P 317	Staff
	207-5	206	T3	12:00-12:50	MTu Th	P 308	Staff
				12:00-1:50	W	P 317	Staff
College Physics	208-5	206	4	12:00-1:50	F	P 308	Staff
				2:00-2:50	M W F	P 308	Staff
				1:00-2:50	Tu	P 308	Staff
				1:00-2:50	Th	P 317	Staff
	208-5	206	1	4:00-4:50	Tu ThF	P 308	Staff
				4:00-5:50	M	P 308	Staff
				4:00-5:50	W	P 317	Staff
				11:00-11:50	MTuWTh S	P 308	Staff
University Physics	208-5	206	T2	10:00-11:50	F	P 317	Staff
				12:00-12:50	MTuW	P 308	Staff
				11:00-12:50	Th	P 317	Staff
				11:00-12:50	F	P 308	Staff
	208-5	206	3	2:00-2:50	M W F	P 308	Staff
				1:00-2:50	Tu	P 308	Staff
				1:00-2:50	Th	P 317	Staff
				4:00-4:50	TuW F	P 308	Staff
University Physics	208-5	206	4	4:00-5:50	M	P 308	Staff
				4:00-5:50	Th	P 317	Staff
				6:00-7:25 P.M.	M WTh	P 308	Staff
				6:00-7:50 P.M.	Tu	P 317	Staff
	211-5	Math. 251 *	1	9:00-9:50	Tu FS	P 309	Staff
				8:00-9:50	M	P 309	Staff
				8:00-9:50	W	P 317	Staff
				11:00-11:50	MTu ThFS	P 309	Staff
University Physics	211-5	Math. 251 *	2	10:00-11:50	W	P 317	Staff
				1:00-1:50	Tu ThF	P 309	Staff
				12:00-1:50	M	P 309	Staff
				12:00-1:50	W	P 317	Staff
	211-5	Math. 251 *	3	2:00-2:50	Tu ThF	P 309	Staff
				2:00-3:50	M	P 309	Staff
				2:00-3:50	W	P 317	Staff
				2:00-3:50	Tu ThF	P 309	Staff
University Physics	211-5	Math. 251 *	4	2:00-3:50	M	P 309	Staff
				2:00-3:50	W	P 317	Staff
				2:00-3:50	Tu ThF	P 309	Staff
				2:00-3:50	M	P 309	Staff
University Physics	211-5	Math. 251 *	1	9:00-9:50	Tu FS	P 309	Staff
				8:00-9:50	M	P 309	Staff
				8:00-9:50	W	P 317	Staff
				11:00-11:50	MTu ThFS	P 309	Staff
University Physics	211-5	Math. 251 *	2	10:00-11:50	W	P 317	Staff
				1:00-1:50	Tu ThF	P 309	Staff
				12:00-1:50	M	P 309	Staff
				12:00-1:50	W	P 317	Staff
University Physics	211-5	Math. 251 *	3	2:00-2:50	Tu ThF	P 309	Staff
				2:00-3:50	M	P 309	Staff
				2:00-3:50	W	P 317	Staff
				2:00-3:50	Tu ThF	P 309	Staff
University Physics	211-5	Math. 251 *	4	2:00-3:50	M	P 309	Staff
				2:00-3:50	W	P 317	Staff
				2:00-3:50	Tu ThF	P 309	Staff
				2:00-3:50	M	P 309	Staff

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
PHYSICS (PHYS) (Continued)									
University Physics	211-5		5		3:00-3:50	Tu ThF	P 309	Staff	
						M	P 317	Staff	
						MTu Th	P 309	Staff	
University Physics	212-5	211, Math. 252 *	T6	1	6:00-7:25 P.M.	MTu Th	P 309	Staff	
						W	P 317	Staff	
						Tu FS	P 309	Staff	
						M	P 309	Staff	
						W	P 317	Staff	
University Physics	213-5	211, Math. 252 *	1	9:00-9:50	Tu FS	P 309	Staff		
					M	P 309	Staff		
					W	P 317	Staff		
					Tu ThF	P 309	Staff		
					M	P 309	Staff		
					W	P 317	Staff		
					Tu FS	P 309	Staff		
					M	P 309	Staff		
					W	P 317	Staff		
					Tu ThF	P 309	Staff		
Mechanics I	301-4	206 or 211, Math. 253 * †	1	9:00-9:50	M	F	P 301	Mr. Watson	
	302-4	301	1	9:00-9:50	Tu Th	P 308	Mr. Watson		
					M	P 301	Mr. Watson		
Heat	303-5	208 or 213, Math. 253	1	9:00-9:50	Tu Th	P 308	Mr. Watson		
				4:00-4:50	MTuWThF	P 301	Mr. Linster		
Introduction to Electric Theory I	305-5	207 or 212, Math. 305 * †	1	3:00-3:50	F	P 302	Mr. Linster		
				2:00-2:50	MTuWThF	P 301	Mr. Watson		
Introduction to Electric Theory II	306-5	305	1	3:00-3:50	Tu Th	P 318	Mr. Watson		
				2:00-2:50	MTuWThF	P 301	Mr. Watson		
Light	310-5	208 or 213	1	3:00-3:50	Tu Th	P 318	Mr. Watson		
				9:00-9:50	MTuWThF	P 301	Miss Zimmerschied		
Introduction to Modern Physics	314-5	212, 213 or 207, 208; Math. 306 †	1	10:00-10:50	W	P 302	Miss Zimmerschied		
				11:00-11:50	MTuWThF	P 301	Mr. Eisele		

Atmospheric Physics	325-5	208 or 213	Tl	3:00-3:50 4:00-4:50	M W F MTuWTh	P 301 P 302	Mr. Brasefield Mr. Brasefield
Electronics	405-5	306, Math. 306 †	1	8:00-8:50 9:00-9:50	MTuWThF Tu Th	P 301 P 301	Mr. Russell Mr. Russell
Physical Optics	410-5	Math. 253; 3 Adv. Phys. Courses	1	3:00-3:50 4:00-4:50	MTuWThF Tu Th	P 301 P 302	Mr. Arvin Mr. Arvin
Recent Developments	414-5	314	1	11:00-11:50	MTuWThF	P 301	Mr. Eisele
Special Projects I	420-2 to 5	302, 306	1	To be arranged			Staff
Introduction to Solid State Physics	450-5	303, 306, 314	1	11:00-11:50	MTuWThF	P 301	Mr. Russell
Methods of Theoretical Physics I	501-5	302, 306, 511, * † Math. 306	1	1:00-1:50	MTuWThF	P 301	Mr. Arvin
Methods of Theoretical Physics II	502-5	501	1	1:00-1:50	MTuWThF	P 301	Mr. Arvin
Methods of Theoretical Physics III	503-5	502	1	1:00-1:50	MTuWThF	P 301	Mr. Arvin
Mathematical Methods of Physics I	511-4	314, Math. 306	1	3:00-3:50	MTu ThF	P 301	Mr. Linster
Mathematical Methods of Physics II	512-4	511, Math. 454 †	1	8:00-8:50	MTu ThF	P 301	Mr. Linster
Mathematical Methods of Physics III	513-4	512	1	8:00-8:50	MTu ThF	P 301	Mr. Linster
Special Projects	520-2 to 5	501 *	1	To be arranged			Staff
Advanced Research	521-2 to 5	520	1	To be arranged			Staff
Thesis	590-1 to 9	501 *	1	To be arranged			Staff

* May be taken concurrently.

† Consent of Instructor.

PHYSIOLOGY (PHSL)

Introduction to Physiology	209-5		1	1:00-1:50 1:00-2:50 1:00-1:50	M W F Tu Th M W F	LS G-16 LS 113 LS 323	Mr. Finamore Staff
			1	1:00-1:50	M W F	LS 113	Mr. Finamore
			2	1:00-2:50	Tu Th	LS 113	Staff
			2	1:00-1:50	M W F	LS G-16	Mr. Finamore
				9:00-10:50	W F	LS 113	Staff
			2	1:00-1:50	M W F	LS 323	Mr. Finamore
				9:00-10:50	W F	LS 113	Staff
Introduction to Anatomy	300-4		1	11:00-11:50 11:00-11:50 11:00-11:50	MTuWTh MTuW F MTu F	LS G-18 LS G-18 LS 133	Mr. Gass Mr. Gass Mr. Gass
			1 [†]	8:00-10:50	W	LS G-18	Mr. Gass

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
PHYSIOLOGY (PHSL) (Continued)								
Advanced College Physiology	315-5		1		8:00-8:50 8:00-9:50	M W F Tu Th	LS 113 LS 113	Mr. Kaplan Mr. Kaplan
Advanced College Physiology	316-5			1	8:00-8:50 8:00-9:50	M W F Tu Th	LS 113 LS 113	Mr. Kaplan Mr. Kaplan
Advanced College Physiology	317-5				8:00-8:50 8:00-9:50	M W F Tu Th	LS 113 LS 113	Mr. Kaplan Mr. Kaplan
Physiology of Speech	414-4 ²			1	11:00-11:50 10:00-11:50	MTu Th	LS 113 LS G-18	Mr. Kaplan Mr. Kaplan
Experimental Animal Surgery I	415-4		1		11:00-12:50 10:00-11:50	M W F Tu Th	LS 118 LS 118	Mr. Kaplan Mr. Kaplan
Experimental Animal Surgery II	416-4			1	11:00-12:50 10:00-11:50	M W F Tu Th	LS 118 LS 118	Mr. Kaplan Mr. Kaplan
Principles of Pharmacology	417-3			1	9:00-9:50 11:00-12:50	M W F Th	LS 118 LS 120	Mr. Kaplan Mr. Gass
Principles of Pharmacology	418-3			1	9:00-9:50 10:00-11:50	M W F Th	LS 118 LS 120	Mr. Gass Mr. Gass
Cellular Physiology	430-4		1		3:00-3:50 2:00-3:50	M W F Tu	LS G-16 LS 120	Mr. Finamore Mr. Finamore
Cellular Physiology	431-4			1	3:00-3:50 2:00-3:50	M W F Tu	LS G-16 LS 120	Mr. Finamore Mr. Finamore
Cellular Physiology	432-4			1	3:00-3:50 2:00-2:50	M W F Tu	LS G-16 LS 120	Mr. Finamore Mr. Finamore
Special Problems	450-4		1		11:00-12:50 12:00-1:50 8:00-9:50	Tu Th W MTuW	LS Labs LS Labs LS Labs	Staff Staff Staff
Physiology Problems in Rehabilitation	455-2			1	3:00-4:50 8:00-8:50	Tu W F Tu Th	LS 323 LS 113	Mr. Lee Mr. Kaplan
Mammalian Physiology	460-4				8:00-9:50 8:00-8:50	M W F Tu Th	LS 113 LS 113	Mr. Kaplan Mr. Kaplan
Mammalian Physiology	461-4			1	8:00-8:50 8:00-9:50	M W F Tu Th	LS 113 LS 113	Mr. Kaplan Mr. Kaplan
Mammalian Physiology	462-4			1	8:00-8:50 8:00-9:50	M W F Tu Th	LS 113 LS 113	Mr. Kaplan Mr. Kaplan

Advanced Seminar
Experimental Pharmacology
Radiation Biology
Thesis

500-1
519-3
550-3
599-3

1 1 10:00-10:50
1 9:00-9:50
8:00-11:50
1 To be arranged
1 3:00-4:50

Mr. Finamore
Mr. Gass
Mr. Gass
Staff
Staff

LS G-16
LS 118
LS 120
LS Labs

¹ Primarily for Nurses.

² Cross-listed with Speech Correction 414.

PLANT INDUSTRIES (PL I)

Field Crop Production

209-5 Bot. 101

Mr. Sherwood
Mr. Sherwood
Mr. Sherwood
Mr. Sherwood
Mr. Portz
Mr. Portz
Mr. Portz
Mr. Portz
Mr. Hillyer
Mr. Hillyer
Mr. Hillyer
Mr. Hillyer
Mr. Hillyer
Mr. Hillyer
Mr. Hillyer

1 1:00-1:50
3:00-4:50
1:00-1:50
3:00-4:50
1 11:00-11:50
12:00-1:50
2 11:00-11:50
9:00-10:50
1 9:00-9:50
8:00-9:50
2 9:00-9:50
8:00-9:50
1 8:00-8:50
8:00-9:50
2 8:00-8:50
10:00-11:50

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ThF
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ThF
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Ag 172
Ag 171
Ag 172
Ag 171
Ag 172
Ag 171
Ag 172
Ag 171
Ag 168
Ag 181
Ag 168
Ag 181
Ag 168
Ag 181
Ag 168
Ag 181

General Horticulture

264-4 Bot. 101

Mr. Sherwood
Mr. Sherwood
Mr. Sherwood
Mr. Sherwood
Mr. Portz
Mr. Portz
Mr. Portz
Mr. Portz
Mr. Hillyer
Mr. Hillyer
Mr. Hillyer
Mr. Hillyer
Mr. Hillyer
Mr. Hillyer
Mr. Hillyer

Soil Science

301-4 one course in Chem.

1 8:00-8:50
8:00-9:50
2 8:00-8:50
8:00-9:50
1 12:00-12:50
9:00-10:50
2 12:00-12:50
12:00-1:50
1 2:00-2:50
3:00-4:50
2 2:00-2:50
3:00-4:50

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Ag 166
Ag 167
Ag 166
Ag 167
Ag 166
Ag 167
Ag 166
Ag 167
Ag 166
Ag 167
Ag 166
Ag 167
Ag 166
Ag 167
Ag 167

Mr. Vavra
Mr. Vavra
Mr. Vavra
Mr. Vavra
Mr. Caster
Mr. Caster
Mr. Caster
Mr. Caster
Mr. Vavra
Mr. Vavra
Mr. Vavra
Mr. Vavra
Mr. Vavra
Mr. Vavra

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
PLANT INDUSTRIES (PL I) (Continued)									
Advanced Soil Science	302-4	301			1	12:00-12:50	MTuWTh	Ag 166	Mr. Vavra
Landscaping Gardening	304-3				1	8:00-8:50	M W	Ag 172	Mr. Tucker
						8:00-9:50	F	Ag 195	Mr. Tucker
Soil and Water Conservation	306-2, 3, 5 + 301		1			8:00-8:50	M W F	Ag 172	Mr. Caster
						8:00-8:50	Tu	Ag 195	Mr. Shute
						8:00-9:50	Th	Ag 195	Mr. Shute
Plant Genetics ¹	315-4	Minor in Agri.	1			1:00-1:50	M WTh	LS 326	Mr. Olah
						1:00-2:50	Tu	LS 315	Mr. Olah
Small Fruits	316-4	264		1		9:00-9:50	MTu Th	Ag 172	Mr. Tucker
Weeds and Their Control	318-3	209 or Bot. 202		1		9:00-10:50	W	Ag 187	Mr. Tucker
						1:00-1:50	TuW F	Ag 172	Mr. Sherwood
Orcharding	324-4	264		1		1:00-2:50	Th	Ag 171	Mr. Sherwood
						11:00-11:50	MTu Th	Ag 172	Mr. Tucker
Preservation and Processing of Agricultural Products	334-4			1		10:00-11:50	W	Ag 187	Mr. Tucker
Commercial Vegetable Production	340-4	264		1		12:00-12:50	M WTh	Ag 172	Mr. Tucker
						12:00-1:50	F	Ag 187	Mr. Tucker
General Floriculture	344-4	Bot. 101			1	11:00-11:50	M W F	Ag 172	Mr. Hillier
						11:00-12:50	Tu	Ag 187	Mr. Hillier
						11:00-11:50	MTu Th	Ag 168	Mr. Hillier
Plant Pathology ¹	355-5	Bot. 202		1		10:00-11:50	F	Ag 181	Mr. Hillier
						8:00-9:50	Tu Th	LS 315	Mr. Hillier
						9:00-9:50	LS 326	Mr. Pappelis	Mr. Pappelis
Agriculture Seminar ²	381-1	Senior Stand.		1		4:00-5:15	M W F	Ag 116	Mr. Caster
						4:00-5:15	Tu	Ag 225	Mr. Wills
						4:00-5:15	Tu	Ag 116	Mr. Burnside
Special Studies in Plant Industries	390-1 to 3	Consent of Dept.		1	1	To be arranged			Staff
Soil Physics	401-4	301			1	2:00-2:50	MTuW F	Ag 172	Mr. Caster
Fertilizers and Soil Fertility	407-3 or 4	301		1		4:00-4:50	M WTh	Ag 166	Mr. Vavra
						2:00-3:50	F	Ag 167	Mr. Vavra
Advanced Crop Production	408-4	209		1		3:00-3:50	MTu	Ag 172	Mr. Sherwood
						3:00-4:50	Th	Ag 171	Mr. Sherwood
Plant Breeding	415-3	315 or Zool. 401			1	3:00-3:50	Tu Th	Ag 172	Mr. Kelly
Forage Crop Management	419-4	209		1		11:00-11:50	WThF	Ag 168	Mr. Portz
						11:00-12:50	Tu	Ag 171	Mr. Portz
Soil Microbiology ³	424A-3	Bot. 101			1	8:00-8:50	M W F	Ag 172	Mr. Kelly
Soil Microbiology Laboratory ³	424B-2	424A and Micro. 301		1		8:00-11:50	S	Ag 181	Mr. Kelly

Mineral Nutrition of Plants ⁴	427-4	Bot. 320	1	9:00-9:50 9:00-10:50	MTu W	Ag 181 Ag 187	Mr. Kelly Mr. Kelly
Plant Propagation	440-3	264	1	12:00-12:50	ThF	Ag 168	Mr. Hillyer
Grading and Marketing of Field Crops ⁵	458-4	209 and Econ. 205	1	2:00-3:50	W	Ag 181	Mr. Hillyer
				11:00-11:50	MTu Th	Ag 218	Mr. Willis & Mr. Sherwood
				10:00-11:50	W	Ag 171	Mr. Willis & Mr. Sherwood
Use of Radioisotopes in Agriculture	506-4	Consent of Dept.	1	8:00-8:50	Tu Th	Ag 181	Mr. Kelly
Readings				9:00-10:50	Tu Th	Ag 181	Mr. Kelly Staff
Research	520-1 to 6	Consent of Dept.	1	To be arranged			Staff
Seminar	575-1 to 6	Consent of Dept.	1	To be arranged			Mr. Caster
Thesis	581-1	Consent of Dept.	1	To be arranged			Staff
	599-2 to 9	Consent of Dept.	1	To be arranged			

¹ Cross-listed with Botany.

² Cross-listed with Agricultural Industries, Animal Industries, and Forestry.

³ Cross-listed with Microbiology.

⁴ Cross-listed with Forestry and Botany.

⁵ Cross-listed with Agricultural Industries.

* Students may register for 2, 3, or 5 hours. If for 2 hours, will meet 8:00-8:50 on Tuesday and 8:00-9:50 on Thursday. If for 3 hours, will meet 8:00-8:50 Monday, Wednesday, and Friday. If for 5 hours, will meet for total time scheduled; preferable to take all five hours.

PRINTING and PHOTOGRAPHY (P & P)

PHOTOGRAPHY

The Photographic Processes	160A-1/2		1	3:00-3:50	Tu	T 27 R 104	Staff
Beginning Photography	260A-3 ²		1	11:00-11:50 1:00-3:50	M W	T 27 R 104 Ag 140	Mr. Horrell Mr. Horrell
Intermediate Photography	261A-3	260A	2	11:00-11:50	W	T 27 R 140	Mr. Horrell
			2	1:00-3:50	F	Ag 140	Mr. Horrell
			1	3:00-3:50	M	T 27 R 104	Mr. Anderson
				1:00-4:50	Tu	T 27 R 100	Mr. Anderson
Portrait Photography	303A-4	261A	1	9:00-9:50 1:00-4:50	M W	T 27 R 104 T 27 R 100	Mr. Horrell Mr. Horrell

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
			F	W	S				
PRINTING AND PHOTOGRAPHY (P & P) (Continued)									
Commercial Photography I	308A-4	261A	1			3:00-3:50	M	T 27 R 104	Mr. Anderson
						1:00-4:50	Tu	T 27 R 100	Mr. Anderson
Commercial Photography II	309A-4	308A			1	3:00-3:50	M	T 27 R 104	Mr. Anderson
						1:00-4:50	Tu	T 27 R 100	Mr. Anderson
Cinematography I	341A-3		1 ¹	1	1	1:00-2:50	M	T 27 R 104	Mr. Mercer
						1:00-2:50	W	T 27 R 100	Mr. Mercer
Cinematography II	342A-3	341A		1		1:00-1:50	Tu	T 27 R 104	Mr. Mercer
						1:00-4:50	Th	T 27 R 100	Mr. Mercer
Cinematography III	343A-3	342A			1	1:00-1:50	Tu	T 27 R 104	Mr. Mercer
						1:00-1:50	Th	T 27 R 100	Mr. Mercer
Workshop in Cinema Production	344A-1 to 6	Consent of Dept.	1	1	1	To be arranged			Mr. Paine
History of the Cinema	345A-3		1			7:25-9:00 P.M.	Tu	LS 205	Mr. Mercer
Press Photography	360A-3 ²	260A			1	11:00-11:50	Tu	T 27 R 104	Mr. Horrell
						1:00-4:50	Th	T 27 R 100	Mr. Horrell
Advanced Press Photography	361A-3 ²	360A	1			11:00-11:50	Tu	T 27 R 104	Mr. Horrell
						Lab: To be arranged			Mr. Horrell
Staff Photography	363A-2 to 6 ²	361A		1		11:00-11:50	Tu	T 27 R 104	Mr. Horrell
						Lab: To be arranged			Mr. Horrell
Color Photography	365A-4	261A	1			9:00-9:50	M	T 27 R 104	Mr. Horrell
						1:00-4:50	Th	T 27 R 100	Mr. Horrell
Problems in Still Photography and Cinematography	390A-1 to 6	Consent of Dept.	1	1	1	To be arranged			Staff
Managing the Industrial Photographic Unit	391A-3	Consent of Dept.							
					1	9:00-9:50	M	T 27 R 104	Mr. Horrell
							W		
							F		
PRINTING									
General Typography	217B-3 to 4 ³		1		1	2:00-4:50	M	T 48 R 116	Mr. Modlin
Machine Composition I	265B-3 ²	217B or Jml. 214	1			1:00-2:50	W	VTI No 2	Mr. Brown
						1:00-2:50	M	VTI No 2	Mr. Brown
			2			1:00-2:50	F	VTI No 2	Mr. Brown
						3:00-4:50	M	VTI No 2	Mr. Brown
			3			1:00-2:50	W	VTI No 2	Mr. Brown
			4			1:00-2:50	Tu	VTI No 2	Mr. Brown
						1:00-2:50	F	VTI No 2	Mr. Brown
						3:00-4:50	Tu	VTI No 2	Mr. Brown
						1:00-4:50	Th	VTI No 2	Mr. Brown
						1:00-3:50	W	VTI No 2	Mr. Brown
						4:00-6:00	M	M 104	Mr. Brown
Machine Composition II	266B-3 ²	265B							
Presswork I	271B-3 to 4 ³	265B		1					
Presswork II	272B-3	271B		1					

Photolithography I 308B-3 to 4th 271B
 Photolithography II 309B-3 308B
 Paper 312B-3 271B
 Color in Printing 313B-3 271B
 Bindery 314B-3 271B
 Printing Operation Analysis 364B-3 309B
 Printing Cost Analysis 365B-3 364B
 Printing Production I 379B-3 365B
 Printing Production II 380B-3 379B
 Estimating I 381B-3 364B
 Estimating II 382B-3 381B

¹ Open to majors only.

² Cross-listed with Journalism.

³ Cross-listed with Industrial Education.

PSYCHOLOGY (PSYC)

Introductory Psychology

201-4

1	1	1	1	8:00-8:50	TuWTh S	Ag 144	Staff
2	2	2	2	8:00-8:50	TuW FS	LS 323	Staff
3	3	3	3	8:00-8:50	MTuWTh	Ag 216	Staff
4	4	4	4	9:00-9:50	TuW FS	Ag 144	Staff
5	5	5	5	9:00-9:50	MTu ThF	LS 323	Staff
6	6	6	6	11:00-11:50	TuWTh S	LS 323	Staff
7	7	7	7	11:00-11:50	TuW FS	Ag 216	Staff
8	8	8	8	12:00-12:50	M WThF	LS 205	Staff
9	9	9	9	1:00-1:50	M WThF	Ag 168	Staff
10	10	10	10	2:00-2:50	M WThF	LS 323	Staff
11 ¹	11 ¹	11 ¹	11 ¹	3:00-3:50	M WThF	Pierce	Staff
12	12	12	12	3:00-3:50	M WThF	Ag 216	Staff
13	13	13	13	4:00-4:50	M WThF	Ag 172	Staff
14	14	14	14	7:35-9:15 P.M.	M W	Ag 168	Mr. Carrier
15	15	15	15	7:35-9:15 P.M.	Tu Th	Ag 168	Staff
T1	T1	T1	T1	8:00-9:50	M W	1015 S. Forest	Mr. Wagman
				8:00-9:50	Tu Th	1015 S. Forest	Mr. Wagman
1	1	1	1	4:00-4:50	M WThF	LS 323	Miss Rafferty
2	2	2	2	9:00-9:50	TuW FS	Ag 216	Mr. Schaefer
				9:00-9:50	TuW FS	Ag 216	Staff
T3	T3	T3	T3	1:00-1:50	M WThF	Ag 172	Miss Rafferty
				1:00-1:50	M WThF	Ag 216	Staff

Principles and Methods of Psychology I 201-4
 Principles and Methods of Psychology II 212-4

Child Psychology

301-4

1	1	1	1	4:00-4:50	M WThF	LS 323	Miss Rafferty
2	2	2	2	9:00-9:50	TuW FS	Ag 216	Mr. Schaefer
				9:00-9:50	TuW FS	Ag 216	Staff
T3	T3	T3	T3	1:00-1:50	M WThF	Ag 172	Miss Rafferty
				1:00-1:50	M WThF	Ag 216	Staff

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
PSYCHOLOGY (PSYC) (Continued)									
Adolescent Psychology	303-4	201	1		1	8:00-8:50	MTu ThF	A 211	Staff
Psychology of Maturity and Old Age	304-4	201		1		8:00-8:50	MTu ThF	A 211	Staff
Psychology of Personality	305-4	201	1	1	1	4:00-4:50	M WThF	LS 205	Mr. Tyler
			2	2	2	11:00-11:50	MTuWTh	HEC 102	Mr. Martine
			3		3	1:00-1:50	M WThF	Ag 146	Mr. Gerler
				3		1:00-1:50	M WThF	Ag 146	Mr. Kelley
					3	2:00-2:50	M WThF	Ag 146	Staff
Social Psychology	307-4	201	1	1	1	11:00-11:50	MTu ThF	A 211	Mr. Alexander
Experimental Psychology: Learning	311-4	212				12:00-1:50	M W	1015 S Forest	Mr. Wagnan
Experimental Psychology: Perception	312-4	212			1	12:00-1:50	Tu Th	1015 S Forest	Mr. Wagnan
Industrial Psychology	320-4	201	1	1	1	9:00-9:50	MTu ThF	A 211	Mr. Westberg
Personnel Psychology	322-4	201			1	11:00-11:50	MTu ThF	HEC 118	Mr. Hemingway
					T1	11:00-11:50	TuWThF	Ag 144	Staff
Psychology of Employee Relations	323-4	320			T1	12:00-12:50	MTu ThF	Ag 218	Staff
Proseminar in General Psychology I	401-4		1			7:00-9:30 p.m. Plus 4 extra sessions	W	Ag 170	Mr. Applezweig
Proseminar in General Psychology II	402-4	401		1		7:00-9:30 p.m. Plus 4 extra sessions	W	Ag 170	Mr. Applezweig
Proseminar in General Psychology III	403-4	402			1	7:00-9:30 p.m. Plus 4 extra sessions	W	Ag 170	Mr. Applezweig
Theories of Perception	404-4	212 or Consent of Dept.	1			3:00-3:50	M WThF	Ag 170	Staff
Learning Processes	406-4	201	1		T1	11:00-11:50	M WThF	HEC 201	Mr. Wagnan
Theories of Learning	407-4	212 or Consent of Dept.	1			12:00-12:50	M WThF	Ag 148	Mr. Wagnan
Scientific Methodology in Psychology	420-4	Consent of Dept.	1			5:30-7:30 p.m.	Tu Th	Ag 174	Mr. Azrin
Psychological Tests and Measurements	421-4	8 hrs. Psyc.	1			11:00-11:50	MTu ThF	Ag 218	Mr. Hemingway
					T1	11:00-11:50	TuWThF	Ag 218	Staff
Psychopathology	431-4	305 or Consent of Dept.	1	1	1	4:00-4:50	M WThF	Ag 218	Mr. Schaeff
Theories of Personality	440-4	305 or Consent of Dept.	1	1	1	3:00-3:50	M WThF	Ag 218	Mr. Martine
Advanced Child Psychology	451-4	301, 303 or Consent of Dept.		1	1	4:00-4:50	M WThF	Ag 174	Mr. Shoemaker
Advanced Social Psychology	461-4	307 or Consent of Dept.			1	1:00-2:50	M Th	Ag 218	Mr. Alexander
Group Dynamics and Individual Behavior	465-4	307 or Consent of Dept.	1			1:00-2:50	M	HEC 201	Mr. Alexander
Independent Projects	490-1 to 16	Consent of Dept.	1	1	1	1:00-2:50	Th	HEC 302	Mr. Alexander
						To be arranged			Staff
Sensory Processes	512-4	Consent of Dept.			1	To be arranged			Staff
Physiological Psychology	514-4	Consent of Dept.			1	To be arranged			Staff

Research Design and Inference I	520-4	1	9:00-10:50	W	Ag 144	Mr. Hemingway
Research Design and Inference II	521-4	1	9:00-10:50	W	Ag 148	Mr. Hemingway
Research Design and Inference III	522-4	1	9:00-10:50	W	Ag 146	Mr. Hemingway
Research Seminar	523-2	1	7:35-9:15 P.M.	Tu	Ag 148	Mr. Hemingway
Advanced Research Methodology	524-4	1	7:35-9:15 P.M.	Tu	Ag 150	Staff
Personality Theory and Dynamics	530-4	1	1:00-1:50	M	Ag 218	Mr. Tyler
Experimental Approaches to Personality	532-2	1	1:00-1:50	W	Ag 150	Mr. Tyler
Counseling and Psychotherapy	537-4	1	2:00-2:50	M	Ag 218	Mr. Tyler
			1:00-2:50	M	Ag 170	Mr. Tyler
Group Psycho Therapy	538-2	1	3:00-3:50	M	M 111	Mr. Shoemaker
Psychodiagnostics I	541-4	1	2:00-3:50	M	Ag 180	Miss Rafferty
Psychodiagnostics II	542-2	1	3:00-3:50	M	Ag 180	Mr. Shoemaker
Psychodiagnostics III	543-4	1	3:00-3:50	M	Ag 116	Miss Rafferty
Psychodiagnostics IV	544-2	1	2:00-3:50	Th	Ag 116	Mr. Gerler
Psychodiagnostics V	545-2	1	To be arranged			Mr. Shoemaker
Psychodiagnostics for Special Populations ²	546-4	1	To be arranged			Miss McKay
Experimental Child Psychology	552-4	1	7:00-9:30 P.M.	M	Ag 116	Miss Rafferty
Developmental Theory	554-2	1	7:30-9:30 P.M.	M	Ag 116	Miss Rafferty
Psychological Treatment of the Child	556-2	1	1:00-2:50	Th	Ag 170	Mr. Shoemaker
Social Influence Processes	561-4	1	To be arranged			Mr. Alexander
Industrial Psychology I	571-4	1	11:00-12:50	M	Ag 150	Mr. Westberg
Industrial Psychology II	572-4	1	To be arranged			Mr. Hemingway
Selection and Placement	573-2	1	To be arranged	Th	Ag 154	Mr. Hemingway
Psychology of Industrial Relations	574-2	1	11:00-12:50	Th	M 105	Mr. Westberg
Human Engineering	576-4	1	To be arranged			Staff
Readings in General Psychology	590A-1 to 16	1	To be arranged			Staff
Research in Psychology	591-1 to 36	1	To be arranged			Staff
Practicum in Clinical Psychology	593E-1 to 18	1	To be arranged			Mr. Shoemaker
		1	To be arranged			Mr. Schaeff
Practicum in Counseling Psychology	593F-1 to 18	1	To be arranged			Staff
Practicum in Industrial Psychology	593H-1 to 18	1	To be arranged			Mr. Westberg
Practicum in Child Psychology	593J-1 to 18	1	To be arranged			Miss Rafferty
Practicum in Teaching of Psychology	593L-1 to 18	1	To be arranged			Mr. Carrier
Practicum in Rehabilitation	593M-1 to 18	1	To be arranged			Mr. Doleys
Practicum in Rehabilitation Counseling	593N-1 to 18	1	To be arranged			Mr. Renzaglia
Advanced Seminar in Clinical Psychology	595A-2	1	To be arranged			Staff
Advanced Seminar in Counseling Psychology	595B-2	1	To be arranged			Staff
Advanced Seminar in School and Community Mental Health	595C-2	1	To be arranged			Staff

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
PSYCHOLOGY (PSYC) (Continued)									
Advanced Seminar in Industrial Psychology	595D-1	Consent of Dept.	1	1	1	To be arranged			Mr. Westberg
Advanced Seminar in Child Psychology	595E-1 to 4	Consent of Dept.	1	1	1	To be arranged			Miss Rafferty
Advanced Seminar in Social Psychology	595G-1 to 4	Consent of Dept.	1	1	1	To be arranged			Mr. Alexander
Advanced Seminar in General Experimental Psychology	595H-1 to 4	Consent of Dept.	1	1	1	To be arranged			Staff
Advanced Seminar in Teaching of Psychology	595J-1 to 4	Consent of Dept.	1	1	1	To be arranged			Mr. Carrier
Ethical and Professional Problems of Psychology	598-2			1		To be arranged			Mr. Kelly
Thesis	599-1 to 9	Consent of Dept.	1	1	1	To be arranged			Staff
Dissertation	600-1 to 45	Consent of Dept.	1	1	1	To be arranged			Staff
¹ Open to Thompson Point residents only. ² Cross-listed with Special Education 573.									
RADIO-TELEVISION (R-T)									
Radio-TV Speaking	161-4		1	1	1	8:00-8:50	MTu ThF	RadS A	Staff
			2			11:00-11:50	MTu ThF	RadS A	Staff
			3		2	5:00-5:50	MTuWTh	RadS A	Staff
				2		6:00-7:25 P.M.	MTu Th	RadS A	Staff
Survey of Broadcasting	251-2			1	1	9:00-9:50	M W	T 38 R 101	Mr. Ripley
Fundamentals of Broadcast Writing	257-4		1			9:00-9:50	MTuW F	Ag 170	Mr. Ripley
					1	11:00-11:50	MTu ThF	T 38 R 102	Mr. Ripley
Radio Announcing	261-3	161		1		11:00-11:50	M F	RadS A	Staff
						11:00-12:50	Tu Th	RadS A	Staff
Programs & Audiences	351-5		1			3:00-3:50	MTuWThF	T 38 R 103	Mr. Ripley
Laws and Policies	352-4	351		1	1	1:00-1:50	MTuWThF	T 38 R 102	Mr. Ripley
						1:00-1:50	MTu ThF	T 41 R 102	Mr. Ripley

Radio and TV in Education	353-2	1				Tu Th	T 41 R 101	Mr. Robbins
Radio and TV Program Planning	354-4	351	1		12:00-12:50	MTuWTh	T 41 R 102	Mr. Ripley
Broadcast Persuasion Factors	355-3	354		1	3:00-3:50	M W F	T 41 R 104	Mr. Ripley
Basic TV Writing	359-3	B in 257	1	1	2:00-2:50	M W F	T 38 R 101	Mr. Ripley
TV Documentary & Dramatic Writing	360-3	Consent of Dept.		1	12:00-12:50	M W F	A 207	Mr. Holman
TV Announcing	361-2	261	1		3:00-3:50	Tu Th	TV	Mr. Uray
Radio-TV Production Survey	367-3		1	1	3:00-4:50	M W	RadS A	Mr. Criminger
					3:00-3:50	Tu Th	RadS A	Mr. Criminger
					8:00-8:50	M	RadS C	Mr. Criminger
Fundamentals of TV Production	368-3	367	1	1	8:00-9:50	TuW	RadS C	Mr. Criminger
Advanced TV Production	369-4	368	1	1	3:00-4:50	M W F	TV	Mr. Uray
					6:00-7:25 p.m.	M Th	T 32 R 110	Mr. Uray
					6:25-9:30 p.m.	TuW	TV	Mr. Uray
					6:00-7:25 p.m.	M Th	T 41 R 104	Mr. Uray
					6:25-9:30 p.m.	TuW	TV	Mr. Uray
Films for Television	370-2	Consent of Dept.	1	1	12:00-12:50	WTh	TV	Mr. Uray
Religious Broadcast Programming	372-3		1	1	12:00-12:50	MTu F	T 38 R 101	Mr. Uray
Production								Staff
Advanced Radio Production Laboratory	373-1 to 5	Consent of Dept.	1	1	To be arranged	RadS	RadS	Staff
Advanced TV Production Laboratory	374-1 to 5	Consent of Dept.	Tl	Tl	To be arranged	TV	TV	Staff
News casting	375a-4	Consent of Dept.	1		1:00-1:50	RadS A	RadS A	Mr. Mofield
				1	8:00-8:50	RadS C	RadS C	Mr. Mofield
Promotion and Publicity	375f-2	Consent of Dept.	1		2:00-2:50	T 41 R 104	T 41 R 104	Mr. Ripley
Advertising and Sales	375g-3	Consent of Dept.	1	1	1:00-1:50	WThF	WThF	Mr. Mofield
Individual Research Problems	375j-1 to 4	Consent of Dept.	1	1	To be arranged	Staff	Staff	Staff
Production Problems	375n-1 to 4	Consent of Dept.	1	1	To be arranged	Staff	Staff	Staff
Sportscasting	375s-1	Consent of Dept.	Tl	Tl	To be arranged	Staff	Staff	Staff
Radio Station Management	390-5	Consent of Dept.	1		2:00-2:50	MTuWThF	T 40 R 114	Mr. Mofield
Radio-TV & Society	393-2	Consent of Dept.	1	1	9:00-9:50	Tu Th	T 38 R 101	Mr. Mofield
TV Station Management	394-5	Consent of Dept.	1	1	2:00-2:50	MTuWThF	P 111	Mr. Robbins

RECREATION AND OUTDOOR EDUCATION (REC)

Introduction to Recreation Leadership	201-4	1	1		9:00-9:50	MTuWTh	Gym 204	Mr. O'Brien
					9:00-9:50	MTuWTh	Ag 166	Mr. O'Brien
Organization and Direction of Recreation Programs	202-4	201	1	1	9:00-9:50	MTuWTh	Ag 214	Mr. O'Brien
					1:00-1:50	MTuWTh	Gym 204	Mr. O'Brien
Programs in School Camping and Outdoor Education	301-4	1	1	1	8:00-8:50	MTuWTh	T 40 R 115	Mr. Taylor

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor	
			F	W	S					
RECREATION AND OUTDOOR EDUCATION (REC) (Continued)										
Social Recreation	310-3			1		11:00-11:50	M	WTh	T 40 R 114	Mr. Taylor
Camp Leadership	311-2 to 6	201	1			To be arranged			T 84	Mr. Taylor
Playground Leadership	312-2 to 6	201		1		To be arranged			T 84	Mr. Freeberg
Agency, Community Center, Social	313-2 to 6	201	1	1		To be arranged			T 84	Mr. Taylor
Recreation Leadership										
Institutional Recreation Leadership	314-2 to 6	201	1	1		To be arranged			T 84	Mr. Freeberg
Recreational Dramatics	315-4	201	1			11:00-11:50	MTuWTh		M 304	Mr. Taylor
The Organization and Administration of Community Recreation	365-2	201	1			1:00-1:50	M W		Ag 148	Mr. O'Brien
Principles and Interpretations of Recreation	450-4		1			9:00-11:30 Plus 4 extra sessions		S	M 104	Mr. Taylor
Recreation in Public Education	470-4			1		9:00-11:30 Plus 4 extra sessions		S	M 108	Mr. Taylor
Techniques in Camping	480-4		1			9:00-11:30 Plus 4 extra sessions		S	T 84	Mr. Taylor
School Camping and Outdoor Education Workshop	510-4		1		1	9:00-11:30		S	M 310	Mr. Sharp
Recreation Program Workshop	520-4			1		9:00-11:30		S	M 111	Mr. Freeberg
Organization for Community Recreation	530-4				1	6:00-8:30 P.M.	M		M 111	Mr. Freeberg
Recreation Surveys and Planning Facilities	540-4			1		9:00-11:30		S	T 84	Staff
Field Experiences in Recreation and Outdoor Education	550-2 to 6			1		9:00-11:30		S	M 104	Mr. Freeberg

REHABILITATION COUNSELING

Students interested in graduate work in this field should consult Mr. Guy A. Renzaglia, Director, Rehabilitation Institute. Offices are located at 603 West Grand.

RELIGION (R)

Introduction to the History of Christianity	213-3		1		9:00-9:50	M	W	F	WF	Mr. Seibert
History of Christian Worship	219-3				1:00-1:50	M	W	F	EF	Mr. Harris
Ministry of Music	222-3		1		1:00-1:50	M	W	F	BF	Mr. Morris

Practical Church Music	223-3											Mr. Morris
Introduction to Religious Education	231-3	1	1	1:00-1:50	M	W	F	BF				Mr. Hall
Religious Education in the Church	232-3		1	8:00-8:50	M	W	F	BF				Mr. Hall
Church and Community	233-3			8:00-8:50	M	W	F	BF				Mr. Hall
Basic Christian Ethics	239-3			1 9:00-9:50	M	W	F	WF				Mr. Seibert
Christian Apologetics	261-3			1 11:00-11:50	M	W	F	BF				Mr. Johnson
The Apostolic Age	282-3		1	11:00-11:50	M	W	F	BF				Mr. Johnson
The Life of Christ	283-3	1		11:00-11:50	M	W	F	BF				Mr. Johnson
Ethical Principles of Christ	286-3			1 11:00-11:50	M	W	F	SCF				Staff
Introduction to the Bible	292-3		T1	11:00-11:50	M	W	F	EF				Staff
Old Testament History	301-3	1		9:00-9:50	M	W	F	BF				Mr. Johnson
Poetical Books	302-3		1	9:00-9:50	M	W	F	BF				Mr. Johnson
The Prophets	303-3			1 9:00-9:50	M	W	F	BF				Mr. Johnson
Hymnology	321-3		1	1:00-1:50	M	W	F	BF				Mr. Morris
Basic Christian Doctrine	330-3		1	11:00-11:50	M	W	F	SCF				Staff
Church Administration	335-3	1		9:00-9:50	M	W	F	BF				Mr. Hall
Visual Education in the Church	341-3		1	9:00-9:50	M	W	F	BF				Mr. Hall
Basic Christian Ethics	343-3	T1		1:00-1:50	M	W	F	EF				Mr. Bell
Christian Principles for Teachers	345-3		1	9:00-9:50	M	W	F	BF				Mr. Hall

RUSSIAN STUDIES

Students interested in a minor in Russian Studies should consult Mr. John J. Wuest, Department of Government, Administrator for the program.

SCIENCE (SCI)

Man's Physical Environment	301-1	1	1	1 10:00-10:50		Th		LS 133			Mr. McClary
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SECONDARY EDUCATION (S ED)

Principles of Secondary Education	310-4	1	1	8:00-8:50	MTuWTh			T 40 R 101			Mr. Fligor
		2	2	9:00-9:50	TuWThF			T 40 R 114			Mr. Stephens
		3	3	1:00-1:50	TuWThF			T 40 R 114			Mr. Fligor
		4	4	2:00-2:50	MTuWTh			T 41 R 102			Mr. Stephens
High School Methods	315-3	1	1	11:00-11:50	M	W	F	T 40 R 114			Mr. Dykhouse
		2	2	3:00-3:50	M	W	F	T 40 R 114			Mr. Edwards
				3:00-3:50	M	W	F	T 40 R 114			Mr. Dykhouse
Readings in Secondary Education	375-2 to 3	1	1	To be arranged							Staff

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
SECONDARY EDUCATION (S ED) (Continued)									
The Junior High School	407-4								
Educational Measurements I ¹	422-4	Guid. 305	1	1	1	6:30-9:00 P.M. Plus 4 extra sessions 6:30-9:00 P.M. Plus 4 extra sessions	Tu	T 40 R 114	Mr. Edwards
			2	2	2	9:00-9:50	TuWThF	HEc 202	Mrs. Parker
			T3	T3	T3	6:30-9:00 P.M. Plus 4 extra sessions	Tu	HEc 206	Mr. Gardner
Educational Measurements I ¹	422-3	Guid. 305	4	4	4	9:00-11:30	S	HEc 201	Mr. Russell
			T5	T5	T5	9:00-11:30	S	HEc 118	Staff
Field Training: Community Methods ³	450-4 to 16	Soc. 487	1	1	1	To be arranged			Staff
Improvement of Reading Instruction ²	505-4		1			6:30-9:00 P.M.	M	T 41 R 103	Mr. Karlin
Readings in Reading ²	507-2 to 4		1	1	1	To be arranged			Mr. Karlin
Trends: Selected Areas of Secondary Education	508-4			1		6:30-9:00 P.M.	Tu	T 40 R 115	Mr. Dkyhouse
Practicum in Reading ²	509-4 to 8		1	1	1	6:30-9:00 P.M.	Tu	T 41 R 103	Mr. Karlin
Seminar Problems in Reading ²	510-4 to 8			1		6:30-9:00 P.M.	W	T 41 R 103	Mr. Karlin
Organization and Administration of Reading Programs	515-4	461 or SED. 460			1	6:15-9:00 P.M.	M	T 41 R 103	Mr. Karlin
Diagnosis and Correction of Reading Disabilities I ¹	521-3	337 or 505, Guid. 305	1			9:00-12:00	S	USch 118	Mr. Karlin
Diagnosis and Correction of Reading Disabilities II ²	522-3	521		1		9:00-12:00	S	USch 118	Mr. Karlin
Diagnosis and Correction of Reading Disabilities III ³	523-3	522			1	9:00-12:00	S	USch 118	Mr. Karlin
Core Curriculum in the Secondary School	550-4				1	6:30-9:00 P.M.	Th	T 40 R 115	Mr. Macomber & Mr. Samford
Workshop: High School Curriculum	562-4		1			6:30-9:00 P.M.	Th	T 40 R 115	Mr. Macomber & Mr. Samford
High School Principal	564-4		1			6:30-9:00 P.M.	W	T 40 R 115	Mr. Macomber
Individual Research (Curriculum)	575A-4		1	1	1	To be arranged			Staff
Individual Research (Supervision)	575B-4		1	1	1	To be arranged			Staff
Individual Research (Language Arts)	575C-4		1	1	1	To be arranged			Staff
Individual Research (Science)	575D-4		1	1	1	To be arranged			Staff
Individual Research (Readings)	575E-4		1	1	1	To be arranged			Staff
Individual Research (Social Studies)	575F-4		1	1	1	To be arranged			Staff
Individual Research (Secondary Education)	575G-4		1	1	1	To be arranged			Staff

The Change Agent in Planned Change ^a	586-3	Soc. 333	1	6:30-9:00 P.M.	W	T 127	Mr. Trueblood and Mr. Franklin
Seminar in Community Development	589-2						
Workshop in Current Problems in Secondary Education	591-4		1	10:00-12:00	F	T 127	Mr. Franklin
Independent Investigation	596-5 to 9		1	6:30-9:00	Th	T 40 R 115	Mr. Umstad and Mr. Samford
Thesis	597-1 to 3		1	To be arranged			Staff
Thesis	598-1 to 3		1	To be arranged			Staff
Thesis	599-1 to 3		1	To be arranged			Staff
Dissertation	600-1 to 48		1	To be arranged			Staff

^a Cross-listed with Guidance.
^b Cross-listed with Elementary Education.
^c Cross-listed with Sociology.

PRACTICE TEACHING

Sec. Student Teaching Agriculture	352a-4 to 8	1	1	To be arranged			Staff
Sec. Student Teaching Art	352a-4 to 8	2	2	To be arranged			Staff
Sec. Student Teaching Biology	352a-4 to 8	3	3	To be arranged			Staff
Sec. Student Teaching Business	352a-4 to 8	4	4	To be arranged			Staff
Sec. Student Teaching Chemistry	352a-4 to 8	5	5	To be arranged			Staff
Sec. Student Teaching Economics	352a-4 to 8	6	6	To be arranged			Staff
Sec. Student Teaching English	352a-4 to 8	7	7	To be arranged			Staff
Sec. Student Teaching Foreign Lang.	352a-4 to 8	8	8	To be arranged			Staff
Sec. Student Teaching General Sci.	352a-4 to 8	9	9	To be arranged			Staff
Sec. Student Teaching Geography	352a-4 to 8	10	10	To be arranged			Staff
Sec. Student Teaching Government	352a-4 to 8	11	11	To be arranged			Staff
Sec. Student Teaching Health Educ.	352a-4 to 8	12	12	To be arranged			Staff
Sec. Student Teaching History	352a-4 to 8	13	13	To be arranged			Staff
Sec. Student Teaching Home Econ.	352a-4 to 8	14	14	To be arranged			Staff
Sec. Student Teaching Ind. Educ.	352a-4 to 8	15	15	To be arranged			Staff
Sec. Student Teaching Journalism	352a-4 to 8	16	16	To be arranged			Staff
Sec. Student Teaching Mathematics	352a-4 to 8	17	17	To be arranged			Staff
Sec. Student Teaching Music	352a-4 to 8	18	18	To be arranged			Staff
Sec. Student Teaching Phys. Educ.	352a-4 to 8	19	19	To be arranged			Staff
Sec. Student Teaching Physics	352a-4 to 8	20	20	To be arranged			Staff
Sec. Student Teaching Sociology	352a-4 to 8	21	21	To be arranged			Staff
Sec. Student Teaching Social Studies	352a-4 to 8	22	22	To be arranged			Staff
Sec. Student Teaching Speech	352a-4 to 8	23	23	To be arranged			Staff
Sec. Student Teaching Lib. Service	352a-4 to 8	24	24	To be arranged			Staff

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
SECONDARY EDUCATION (S ED) (Continued)									
Sec. Student Teaching Agriculture	352b-4 to 12		1	1	1	To be arranged			Staff
Sec. Student Teaching Art	352b-4 to 12		2	2	2	To be arranged			Staff
Sec. Student Teaching Biology	352b-4 to 12		3	3	3	To be arranged			Staff
Sec. Student Teaching Business	352b-4 to 12		4	4	4	To be arranged			Staff
Sec. Student Teaching Chemistry	352b-4 to 12		5	5	5	To be arranged			Staff
Sec. Student Teaching Economics	352b-4 to 12		6	6	6	To be arranged			Staff
Sec. Student Teaching English	352b-4 to 12		7	7	7	To be arranged			Staff
Sec. Student Teaching Foreign Lang.	352b-4 to 12		8	8	8	To be arranged			Staff
Sec. Student Teaching General Sci.	352b-4 to 12		9	9	9	To be arranged			Staff
Sec. Student Teaching Geography	352b-4 to 12		10	10	10	To be arranged			Staff
Sec. Student Teaching Government	352b-4 to 12		11	11	11	To be arranged			Staff
Sec. Student Teaching Health Educ.	352b-4 to 12		12	12	12	To be arranged			Staff
Sec. Student Teaching History	352b-4 to 12		13	13	13	To be arranged			Staff
Sec. Student Teaching Home Econ.	352b-4 to 12		14	14	14	To be arranged			Staff
Sec. Student Teaching Ind. Educ.	352b-4 to 12		15	15	15	To be arranged			Staff
Sec. Student Teaching Journalism	352b-4 to 12		16	16	16	To be arranged			Staff
Sec. Student Teaching Mathematics	352b-4 to 12		17	17	17	To be arranged			Staff
Sec. Student Teaching Music	352b-4 to 12		18	18	18	To be arranged			Staff
Sec. Student Teaching Phys. Educ.	352b-4 to 12		19	19	19	To be arranged			Staff
Sec. Student Teaching Physics	352b-4 to 12		20	20	20	To be arranged			Staff
Sec. Student Teaching Sociology	352b-4 to 12		21	21	21	To be arranged			Staff
Sec. Student Teaching Social Studies	352b-4 to 12		22	22	22	To be arranged			Staff
Sec. Student Teaching Speech	352b-4 to 12		23	23	23	To be arranged			Staff
Sec. Student Teaching Lib. Service	352b-4 to 12		24	24	24	To be arranged			Staff

SECRETARIAL and BUSINESS EDUCATION (SEC)

Typewriting I	102-3	1	1	8:00-8:50	MtU	ThF	T 32 R 103	Miss Du Frain
Typewriting II	103-3	1	1	9:00-9:50	MtU	ThF	T 32 R 103	Miss Du Frain
Typewriting III	104-3	1	1	11:00-11:50	M	WThF	T 32 R 103	Mr. Buboltz
Shorthand I	105-4	1	1	12:00-12:50	Tu	WThF	T 40 R 114	Mrs. Lockwood
Shorthand II	106-4	1	1	1:00-1:50	Tu	WThF	T 42 R 118	Mrs. Lockwood
Shorthand III	107-4	1	1	4:00-4:50	MtU	WTh	T 32 R 103	Staff
Duplicating	113-1	1	1	12:00-12:50	M		T 32 R 112	Staff
		2		12:00-12:50	Tu		T 32 R 112	Staff
		3		12:00-12:50	W		T 32 R 112	Staff

4	12:00-12:50	Th	T 32 R 112	Staff
1	4:00-4:50	M	T 32 R 112	Staff
2	4:00-4:50	Tu	T 32 R 112	Staff
3	4:00-4:50	W	T 32 R 112	Staff
4	4:00-4:50	Th	T 32 R 112	Staff
1	11:00-11:50	M	T 32 R 112	Staff
2	11:00-11:50	Tu	T 32 R 112	Staff
3	11:00-11:50	W	T 32 R 112	Staff
4	11:00-11:50	Th	T 32 R 112	Staff
1	1:00-1:50	TuWThF	T 32 R 103	Mr. West
2	3:00-3:50	MTuWTh	T 32 R 103	Mrs. Lockwood
1	1:00-1:50	TuWThF	T 32 R 103	Mrs. Lockwood
1	2:00-2:50	MTuW F	T 32 R 103	Mr. Rahe
1	2:00-2:50	MTuW F	T 32 R 103	Mrs. Lockwood
1	3:00-3:50	MTuWThF	T 32 R 104	Mrs. Lockwood
1	4:00-4:50	F	T 32 R 104	Mrs. Lockwood
1	12:00-12:50	M WThF	T 32 R 103	Mr. Buboltz
1	3:00-3:50	M WThF	T 32 R 103	Mr. Buboltz
1	1:00-1:50	MTuW F	T 32 R 104	Miss Du Frain
1	6:00-7:25 P.M.	M W	T 32 R 103	Mr. West
1	6:00-7:25 P.M.	M W	T 32 R 103	Mr. Rahe
1	6:00-7:25 P.M.	Tu Th	T 32 R 104	Mr. Rahe
1	5:45-7:25 P.M.	Tu Th	T 32 R 104	Mr. Bauernfeind
1	5:45-7:25 P.M.	M W	T 32 R 104	Mrs. Lockwood
1	11:00-11:50	M W	T 32 R 104	Mr. Bauernfeind
1	11:00-11:50	F	T 38 R 102	Mr. Bauernfeind
1	To be arranged			Staff
1	To be arranged			Staff
1	9:00-11:30	S	T 32 R 6	Mr. West
1	9:00-11:30	S	T 40 R 114	Mr. West
1	9:00-11:30	S	T 32 R 6	Mr. West
1	7:35-9:00 P.M.	Tu Th	T 32 R 6	Miss Du Frain
1	To be arranged			Staff

Social Problems	102-5	15 16 T17	1	1	6:00-7:25 P.M. 7:35-9:00 P.M. 7:35-9:00 P.M. 9:00-9:50	M WTh M WTh M WTh TuWThFS	M 102a M 203 M 102a M 203B	Staff Staff Staff Mr. Petroff
Marriage and Parenthood	241-4	101 101 101	1 2 3	1 2 3	8:00-8:50 9:00-9:50 12:00-12:50	MTuWTh MTuWTh MTuWTh	M 203 M 210 M 203	Miss E. Snyder Mr. Lantz Miss E. Snyder
Social Institutions	305-4	101	1		11:00-11:50	Tu ThFS	M 203B	Mr. Petroff
Social Control	306-4	101	1	1	11:00-11:50	Tu ThFS	M 203B	Mr. Petroff
Race and Minority Group Relations	320-4	101	1	1	8:00-8:50	TuWThF	M 214	Mr. Queen
Socialization of the Individual	321-4	101	1		2:00-2:50	MTuWTh	LS 326	Mr. Johnson
Propaganda and Public Opinion	322-3	101	1	1	1:00-1:50	WTh S	M 111	Mr. Johnson
Community Organization	333-4	101	1	1	1:00-1:50	MTuWTh	M 210	Mr. Rennie
Urban Sociology	335-4	101	1	1	8:00-8:50	TuWThF	T 41 R 103	Mr. Queen
Sociology of Rural Life	336-4	101	1	1	3:00-3:50	TuWThF	M 215	Mr. Brooks
Industrial Sociology	338-4	101	1	1	1:00-1:50	MTuWTh	LS 323	Mr. Rennie
The Family	340-4	101	1	1	11:00-11:50	MTuWTh	M 215	Miss E. Snyder
Sociology of Religion	351-4	101	1	1	8:00-8:50	MTuWTh	M 215	Mr. Munch
Population and Migration	371-4	101	1	1	8:00-8:50	MTuWTh	M 213	Mr. Brooks
Criminology	372-4	101	1	1	1:00-1:50	MTuWTh	M 210	Staff
Juvenile Delinquency	373-4	101	1	1	2:00-2:50	TuWThF	HEc 201	Mr. Petroff
Introduction to Social Work	380-4	101	1	1	11:00-11:50	MTu ThF	M 203	Mr. Vander Wiel
Introduction to Interviewing	383-4	101 or P. Soc.	1	1	1:00-1:50	MTu ThF	M 215	Mr. Vander Wiel
Current Sociology	400-2	8 hrs. Soc.	1		11:00-11:50	Tu Th	T 40 R 114	Mr. Campisi
Integrated Sociology	407-4	15 hrs. Soc.	1	1	4:00-4:50	MTuWTh	M 213	Mr. Rennie
Sociological Research	412-5	101 and 4 hrs. Stat.	1	1	3:00-3:50	MTuWTh	M 207	Mr. Rennie
Logic of the Social Sciences ²	415-3				1:00-1:50	MTuWThF	T 41 R 104	Mr. Brooks
Social Factors in Behavior and Personality	426-4	321	1	1	To be arranged 11:00-11:50	TuWThF	T 41 R 104	Mr. McClure Mr. Campisi
Personality and Social Adjustment	427-4	321	1	1	2:00-2:50	MTuWTh	A 207	Mr. Johnson
Social Stratification	435-4	101	1	1	8:00-8:50	MTuWTh	M 207	Mr. Rennie
Sociology of Aging	449-4	12 hrs. Soc.	1	1	11:00-11:50	MTu ThF	T 41 R 104	Miss E. Snyder
Social Thought I	450-4	Consent of Dept.	1	1	3:00-3:50	MTuWTh	M 202	Mr. Munch
Social Thought II, The Sociological Movement	451-4	Consent of Dept.	1	1	3:00-3:50	MTuWTh	HEc 118	Mr. Munch
Social Movements	453-4	8 hrs. Soc.	1	1	11:00-11:50	TuWThF	M 102	Mr. Campisi
Treatment and Prevention of Crime	472-4	372	1	1	4:00-5:40	M W	M 214	Staff

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No. F W S	Time	Days	Bldg. No. Room No.	Instructor
SOCIOLOGY (SOC) (Continued)							
History and Philosophy of Rehabilitation ³	480-2		1	To be arranged			Mr. Shafter
Processes in Social Work	481-4	380	1	8:00-8:50	MTu ThF	T 41 R 103	Mr. Vander Wiel
Social Work in Selected Agencies	482-3	481		9:00-9:50	M ThF	HEc 122	Mr. Vander Wiel
Survey Course in Marriage Counseling	484-3	241	1	6:00-7:25 P.M.	M W	M 106	Mr. Lantz
Independent Study in Community Development	486-1 to 5	Consent of Dept.	1 1 1	To be arranged			Staff
Community Development I	487-4	4 hrs. Soc.	1	6:30-9:00 P.M. Plus 4 extra sessions	M	T 127	Mr. Franklin
Community Development II	488-3	487	1	6:30-9:00 P.M.	M	T 127	Mr. Stabler
History of European Sociology	501-4	451	1	7:00-9:30 P.M.	Tu	M 106	Mr. Munch
Seminar in European Sociological Theory 1800-1910	502-4	451	1	7:00-9:30 P.M.	Tu	M 108	Mr. Munch
Seminar in European Sociological Theory 1910 to Present	503-4	451	1	7:00-9:30 P.M.	Tu	M 106	Mr. Munch
Seminar in American Sociology I	504-4	15 hrs. Soc.	1	To be arranged		HEc 208	Mr. Queen
Seminar in American Sociology II	505-4	15 hrs. Soc.	1	To be arranged		HEc 120	Mr. Queen
Seminar in Contemporary Sociological Theory	506-4	15 hr. Soc.	1	To be arranged		T 32 R 110	Miss E. Snyder
Methodological Foundations of the Social Sciences	511-4	407 and Phil. 420	1	To be arranged			Mr. Munch
Research Techniques I	513-3	412	1	4:00-5:15	M W	M 104	Mr. Brooks
Research Techniques II	514-3	513	1	4:00-5:15	M W	M 206	Mr. Brooks
Seminar in Methodology	516-4	Consent of Dept.	1	To be arranged			Staff
Seminar in Social Psychology	521-4	426	1	4:00-5:40	Tu Th	M 210	Mr. Campisi
Seminar in Intergroup Relations	534-4	15 hrs. Soc.	1	To be arranged			Mr. Queen
Seminar in Industrial Sociology	538-4	15 hrs. Soc.	1	To be arranged			Mr. Rennie
Sociology of Bureaucracy	539-4	15 hrs. Soc.	1	To be arranged			Mr. C. Snyder
Seminar on the Family	542-4	15 hrs. Soc.	1	To be arranged			Mr. Lantz
Alcoholism and Society	561-4	15 hrs. Soc.	1	7:35-9:15 P.M.	M W	M 106	Mr. C. Snyder
Disorganization: Personal and Social	562-4	15 hrs. Soc.	1	To be arranged			Mr. C. Snyder
Research Problems in Disorganization	563-4	15 hrs. Soc.	1	To be arranged			Mr. C. Snyder
Seminar in Criminology	572-3	372	1	To be arranged			Staff
The Change Agent in Planned Change ⁴	586-3	333	1	6:30-9:00 P.M.	W	T 127	Mr. Trueblood and Mr. Franklin
Individual Research	591-2 to 6	Consent of Dept.	1 1 1	To be arranged			Staff

¹ Open only to residents of Thompson Point.

² Cross-listed with Philosophy.

³ Open only to students in Rehabilitation Institute.

⁴ Cross-listed with Secondary Education.

SPECIAL EDUCATION (SP E)

Orientation to Education of Exceptional Children	200-2	1 2	1 2	1 2	1 2	10:00-10:50 10:00-10:50	W W	F F	T 40 R 115 T 41 R 101	Staff Staff
Problems and Characteristics of the Mentally Retarded	410-4	1	1	1	1	6:30-9:00 P.M. Plus 4 extra sessions	W		T 40 R 115	Mr. Frey
The Gifted Child	412-4	1	1	1	1	6:30-9:00 P.M. Plus 4 extra sessions	Th		T 40 R 114	Staff
Directed Observation	413-4	1	1	1	1	10:00-12:50	W	F	T 41 R 102	Mr. Frey
The Exceptional Child	414-4	1	1	1	1	6:30-9:00 P.M. Plus 4 extra sessions	MTu	ThF	T 40 R 114 1020 S Lake	Staff Mr. Brutton
Communication Problems for the Deaf and Hard of Hearing	419-4 ¹	1	1	1	1	2:00-2:50				Mr. Frey
Methods and Materials for Exceptional Children	420-4	1	1	1	1	To be arranged				Mr. Brutton
Speech Correction for the Classroom Teacher	428-4 ¹	1	1	1	1	1:00-1:50 1:00-1:50 6:30-9:00 P.M. Plus 4 extra sessions	MTu MTu M	ThF ThF	T 38 R 102 T 38 R 102 T 38 R 103	Mr. Hoshiko Mr. Brackett
Special Research Problems	501-4	1	1	1	1	To be arranged				Staff
Special Problems of the Handicapped I	571-2	1 2	1 2	1 2	1 2	To be arranged To be arranged To be arranged To be arranged				Mr. Shafter Mr. Shafter Mr. Shafter Miss McKay
Special Problems of the Handicapped II	572-2					To be arranged				Staff
Psychodiagnostic for Special Population	573-3 to 4 ²	1	1	1	1	To be arranged				Staff
Practicum	577-4 to 12	1	1	1	1	To be arranged				Staff
Independent Investigations	596-2 to 9	1	1	1	1	To be arranged				Staff
Thesis	599-2 to 9	1	1	1	1	To be arranged				Staff

¹ Cross-listed with Speech Correction.

² Cross-listed with Psychology 546.

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
			F	W	S				
SPEECH (SPCH) Principles of Speech	101-4		1 ¹	1 ¹	1 ¹	8:00-8:50	Tu ThFS	Pierce	Staff
			2	2	2	8:00-8:50	MTuWTh	T 38 R 101	Staff
			3	3	3	8:00-8:50	Tu ThFS	T 38 R 103	Staff
			4	4	4	9:00-9:50	MTu FS	T 38 R 102	Staff
			5	5	5	9:00-9:50	Tu ThFS	T 38 R 103	Staff
			6	6	6	9:00-9:50	Tu ThFS	T 38 R 101	Staff
			7	7	7	11:00-11:50	M W FS	T 38 R 101	Staff
			8	8	8	11:00-11:50	M W FS	T 38 R 103	Staff
			9 ¹			12:00-12:50	MTuWTh	Pierce	Staff
			10	9	8	12:00-12:50	TuWThF	T 38 R 102	Staff
			11	10	9	12:00-12:50	M WThF	T 38 R 103	Staff
			12			12:00-12:50	MTuW F	T 38 R 101	Staff
			13			12:00-12:50	TuWThF	M 209	Staff
			14 ¹	11 ¹	10 ¹	1:00-1:50	MTuW F	Felts	Staff
			15	12	11	1:00-1:50	MTuWTh	T 38 R 101	Staff
			16	13	12	1:00-1:50	MTuWTh	T 40 R 115	Staff
			17	14	13	2:00-2:50	MTuWTh	T 38 R 101	Staff
			18	15	14	2:00-2:50	M WThF	T 40 R 101	Staff
			19	16	15	2:00-2:50	M WThF	T 38 R 102	Staff
			20	17	16	3:00-3:50	MTuWTh	T 40 R 101	Staff
			21			3:00-3:50	MTuWTh	T 38 R 101	Staff
			22	18	17	3:00-3:50	TuWThF	T 38 R 102	Staff
			23	19	18	4:00-4:50	TuWThF	T 38 R 101	Staff
			24 ¹			4:00-4:50	M WThF	Pierce	Staff
			25	20	19	4:00-4:50	MTuW F	T 38 R 102	Staff
			26	21	20	5:45-7:25 P.M.	M W	T 38 R 101	Staff
			27			5:45-7:25 P.M.	Tu Th	T 41 R 102	Staff
			28	22	21	5:45-7:25 P.M.	M W	T 38 R 102	Staff
			29	23	22	7:35-9:15 P.M.	Tu Th	T 38 R 101	Staff
			30	24		7:35-9:15 P.M.	M W	T 38 R 101	Staff
Public Speaking	102-4	101	1	1	1	8:00-8:50	Tu Th	T 38 R 102	Staff
			2			9:00-9:50	MTuWTh	T 40 R 114	Mr. Breniman
	103-4		1	1	1	9:00-9:50	M WThF	M 112	Staff
Oral Interpretation I	104-4		1	1	1	9:00-9:50	M WThF	T 41 R 103	Miss Davis
Training the Speaking Voice ²	108-0 to 3		1	1	1	9:00-9:50	MTu ThF	T 61	Mr. Brackett
Speech for Foreign Born I ²			1	1	1	4:00-4:50	MTuW F	903 S Forest	Mr. Garbutt
Speech for Foreign Born II ²			1	1	1	3:00-3:50	MTuW F	903 S Forest	Mr. Garbutt

Phonetics ²	200-4	1				9:00-9:50	MTuWTh	Ag 218	Mr. Garbutt
Parliamentary Law	201-2	1	1			9:00-9:50	MTuWTh	P 204	Mr. Garbutt
Principals of Discussion	202-3	1	1			10:00-10:50	W F	P 111	Mr. Breniman
Principals of Argumentation and Debate	203-3	1	1			2:00-2:50	MTu Th	T 38 R 103	Mr. Potter
Forensic Activities	209-1	1	1			2:00-2:50	MTu Th	M 112	Mr. Parker
Speech Composition	213-4	1	1			To be arranged			Mr. Parker
		1				9:00-9:50	M W F	LS 205	Mr. Potter
						9:00-9:50	Th	LS 326	Mr. Potter
Oral Interpretation II	223-4	1	1			8:00-8:50	TuWThF	T 41 R 101	Miss Davis
Persuasion	301-4	1	1			9:00-9:50	M W	HEc 120	Mr. Micken
Business and Professional Speaking	303-4					9:00-9:50	Tu Th	HEc 122	Mr. Micken
Teaching Speech in Secondary Schools	306-4	1	1			To be arranged			Staff
Forensic Activities	309-1	1	1			8:00-8:50	MTuWTh	USch 117	Mr. Buys
Oral Interpretation of Prose	323-4	1	1			To be arranged			Staff
Teaching Speech in Elementary Schools	340-4	1	1			11:00-11:50	MTuWTh	T 41 R 104	Miss Davis
						8:00-8:50	MTuWTh	USch 117	Mr. Buys
American Public Address I	407-4	1				11:00-11:50	MTuWTh	LS G-16	Mr. Bradley
Psychology of Speech	408-4					2:00-2:50	M WThF	Ag 218	Mr. Breniman
American Public Address II	413-4	1	1			11:00-11:50	MTuWTh	T 38 R 102	Mr. Bradley
Contemporary Public Address	417-4	1	1			11:00-11:50	MTuWTh	M 313	Mr. Potter
British Public Address	418-4	1	1			1:00-1:50	M WThF	T 38 R 103	Baird
Oral Interpretation of Poetry	423-4	1	1			2:00-2:50	MTuWTh	T 41 R 104	Miss Davis
Oral Interpretation of Dramatic Literature	424-4					12:00-12:50	MTuWTh	M 313	Mr. Abrams
Techniques of Discussion and Leadership	425-3	1				1:00-1:50	M W F	T 38 R 103	Mr. Potter
The Secondary School Forensic Program	427-4	1	1			2:00-2:50	M WThF	HEc 118	Mr. Breniman
Lecture and Lecture Recital	434-4	1	1			2:00-2:50	MTuWTh	T 41 R 104	Miss Davis
Advanced Phonetics	440-4					2:00-2:50	MTuW F	HEc 122	Mr. Garbutt
General Semantics	449-4					1:00-1:50	MTuWTh	T 38 R 103	Mr. Bradley
Survey of Classical Rhetoric	500-4	1				5:45-7:25 p.m.	Tu Th	T 38 R 103	Mr. Micken
Medieval Rhetorical Theory	504-3					10:00-10:50	W FS	M 104	Mr. Bradley
Modern Rhetorical Theory	505-4	1	1			8:00-10:00	M W	T 38 R 103	Mr. Potter
Seminar: Studies in Discussion	508-4	1	1			8:00-10:00	M W	T 38 R 103	Mr. Potter
Seminar: Persuasion and Social Control	510-4					5:45-7:25 p.m.	Tu Th	T 38 R 103	Mr. Micken
Teaching the College Speech Course	511-3	1				2:00-2:50	MTu Th	T 38 R 103	Mr. Breniman
Seminar: Problems in Interpretation	523-3					3:00-3:50	Tu ThF	M 112	Miss Davis
Seminar: Rhetoric and Public Address	524-3					10:00-10:50	W FS	T 38 R 103	Mr. Bradley

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
SPEECH (SPCH) (Continued)									
Seminar: Speech Education	525-4				1	To be arranged			Mr. Buys
Research Problems	530-1 to 4		1	1	1	To be arranged			Staff
Areas and Techniques of Research	532-4		1			8:00-10:00	M W	T 38 R 103	Mr. Bradley
in Speech									
Thesis	599-2 to 9		1	1	1	To be arranged			Staff
Dissertation	600-0 to 48		1	1	1	To be arranged			Staff
¹ Open to Thompson Point residents only.									
² Cross-listed with Speech Correction.									
SPEECH CORRECTION (SP C)									
Speech Clinic	100-0 to 2		1	1	1	To be arranged		T 61	Staff
Training the Speaking Voice ¹	104-4		1	1	1	9:00-9:50	MTu ThF	T 61	Mr. Brackett
Speech for Foreign Born I ¹	108-0 to 3		1	1	1	4:00-4:50	MTuW F	903 S Forest	Mr. Garbutt
Speech for Foreign Born II ¹	109-0 to 3		1	1	1	3:00-3:50	MTuW F	903 S Forest	Mr. Garbutt
Phonetics ¹	200-4		1			9:00-9:50	MTuWTh	Ag 218	Mr. Garbutt
Introduction to Speech Science	203-4				1	9:00-9:50	MTuWTh	P 204	Mr. Garbutt
Articulatory Problems and Delayed Speech	212-4	200*	1		1	11:00-11:50	MTu ThF	T 61	Mr. Hoshiko
						11:00-11:50	MTu ThF	T 61	Mr. Gregory
Voice and Cleft Palate	318-4	200		1		1:00-1:50	MTu ThF	T 61	Mr. Koepp-Baker
Stuttering	319-4	200			1	1:00-1:50	MTu ThF	T 61	Mr. Bruttien
Independent Study in Speech	400-1 to 4		1	1	1	To be arranged		T 61	Staff
Correction and Audiology									
Practicum in Speech and Hearing Therapy	405A-2 to 4		1			To be arranged		T 61	Mr. Gregory
Practicum in Speech and Hearing Therapy	405B-2 to 4			1		To be arranged		T 61	Mr. Gregory
Practicum in Speech and Hearing Therapy	405C-2 to 4				1	To be arranged		T 103	Mr. Gregory
Techniques and Interpretations of	406-4		1			8:00-8:50	MTu ThF	T 103	Mr. Atkinson
Hearing Tests									
Research Techniques in Speech Science	409-4		1			2:00-2:50	MTu ThF	T 61	Mr. Hoshiko

Cerebral Palsy	412-4	1	9:00-9:50	MTu	ThF	Ag 172	Mr. Gregory
Anatomy and Physiology of Speech and Hearing Mechanisms ²	414-4	1	11:00-11:50	MTu	Th	LS 113	Mr. Kaplan
Aphasia	415-4	1	10:00-10:50	MTu	F	LS G-18	Mr. Kaplan
Hearing	416-4	1	3:00-3:50	MTu	ThF	T 61	Mr. Hoshiko
Communication Problems of the Deaf and Hard of Hearing ³	419-4	1	8:00-8:50	MTu	ThF	T 103	Mr. Atkinson
Advanced Clinical Audiometry	420-4	1	2:00-2:50	MTu	ThF	T 61	Mr. Brutton
Speech Correction for the Classroom Teacher ³	428-4	1	8:00-8:50	MTu	ThF	T 103	Mr. Atkinson
			1:00-1:50	MTu	ThF	T 38 R 102	Mr. Brutton
			1:00-1:50	MTu	ThF	T 38 R 102	Mr. Hoshiko
			6:30-9:00 P.M.	M		T 38 R 103	Mr. Brackett
Speech Correction for Allied Professions	429-4	1	Plus 4 extra meetings 11:00-11:50	MTu	ThF	T 61	Mr. Hoshiko
Readings in Speech Pathology	515-1 to 4	1	To be arranged			T 61	Mr. Brackett
Seminar in Residual Hearing	516-1 to 4	1	To be arranged			T 61	Mr. Brutton
Seminar in Hearing	520-1 to 4	1	To be arranged			T 61	Mr. Gregory
Seminar in Articulation and Delayed Speech	521-1 to 4	1	10:00-11:50		FS	T 103	Mr. Atkinson
Seminar in Organic Speech Problems	522-1 to 4	1	10:00-11:50		FS	T 103	Mr. Atkinson
Seminar in Interpersonal Relationships in Speech and Hearing	528-1 to 4	1	4:00-5:50	M	Th	T 61	Mr. Brackett
Seminar in Stuttering Behavior	529A-1 to 4	1	10:00-11:50		FS	T 61	Mr. Koeppe-Baker
Seminar in Stuttering Behavior	529B-1 to 4	1	3:00-4:50	Tu	F	T 61	Mr. Gregory
Research Problems in Speech Correction	530-1 to 4	1	4:00-5:50	Tu	F	T 61	Mr. Brutton
Seminar in Experimental Phonetics	531-1 to 4	1	To be arranged			T 61	Mr. Brutton
Seminar in Speech Science	533-1 to 4	1	10:00-11:50		FS	T 103	Staff
Seminar in Instrumentation	534-1 to 4	1	3:00-4:50	Tu	Th	T 61	Mr. Atkinson
Seminar in Administration of Speech and Hearing Programs	536-1 to 4	1	9:00-10:50		FS	T 103	Mr. Hoshiko
Thesis	599-2 to 9	1	1:00-2:50	M	Th	T 61	Mr. Hoshiko
		1	To be arranged			T 61	Mr. Koeppe-Baker
		1	To be arranged			T 61	Staff
Dissertation	600-1 to 12	1	To be arranged			T 61	Staff

¹ Cross-listed with Speech.

² Cross-listed with Physiology.

³ Cross-listed with Special Education.

* May be taken concurrently.

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
THEATER (THEA)									
Introduction to Theater	106-4		1			9:00-9:50	MTuW F	Ag 166	Mr. Moe
Staging Techniques	111-3		1			3:00-3:50	MTuWThF	Play	Mr. Zoekler
Staging Techniques	112-3			1		3:00-3:50	MTuWThF	Play	Mr. Zoekler
Staging Techniques	113-3				1	3:00-3:50	MTuWThF	Play	Mr. Zoekler
Acting	204-4				1	1:00-1:50	MTuWTh	Play	Mr. Abrams
Fundamentals of Theatrical Design	207-4		1			1:00-1:50	MTuWTh	Play	Mr. Zoekler
Dramatic Activities	208-1 to 3	Consent of Dept.	1	1	1	7:30-9:00 P.M.	Tu Th	Play	Staff
Stage Make-up	305-2		1			8:00-8:50	Tu Th	Play	Mr. Abrams
Dramatic Activities	308-1 to 3	Consent of Dept.	1	1	1	7:30-9:00 P.M.	Tu Th	Play	Staff
Introduction to Playwriting	311-4	One course dramatic literature	1			3:00-3:50	MTuW F	M 215	Mr. Moe
History of the Theater	313-4		1			2:00-2:50	MTuW F	P 309	Mr. Moe
Theater Practicum	322-12	Consent of Dept.	1			To be arranged	MTuWThF	Play	Mr. Abrams
Play Directing	402A-4	111, 208	1		1	11:00-11:50	MTuW F	Play	Mr. McLeod
Play Directing	402B-3	402A		1		11:00-11:50	MTuW F	Play	Mr. McLeod
Scenic Imagination	405A-4	Senior or Grad. Standing	1			8:00-9:50	MTu	A 207	Mr. Corelik
Scenic Imagination	405B-4	405A		1		8:00-9:50	MTu	Ag 146	Mr. Corelik
Aesthetics of the Drama and Theater	403-4				1	9:00-9:50	MTuW F	T 41 R 103	Mr. McLeod
Playwriting	411-4	311		1		8:00-11:50	S	T 40 R 115	Mr. Moe
Stage Design	412-4	207		1		2:00-2:50	MTuW F	Play	Mr. McLeod
Stage Lighting	432-4	111			1	2:00-2:50	MTuWTh	Play	Mr. Zoekler
Contemporary Development in Theater	438-4	One course Theater Dept.			1	11:00-11:50	MTuW F	T 41 R 103	Mr. Moe
Advanced Directing	502-4	402A, 402B			1	1:00-1:50	MTuWTh	Play	Mr. Abrams
Advanced Technical Problems	503-4	111, 113		1		8:00-12:00	S	Play	Mr. Zoekler
The High School Theater and Its Production Problems	509-4			1		9:00-9:50	MTuWTh	M 304	Mr. Abrams
Theater Practicum	519-12	Consent of Dept.	1			To be arranged	MTuWThF	Play	Mr. Abrams
Seminar in Theater Arts	526-3		1			9:00-11:50	S	H 303	Mr. Moe
Research Problems in Theater	530-1 to 4	Consent of Dept.	1	1	1	To be arranged			Staff
Thesis	599-1 to 9	Consent of Dept.	1	1	1	To be arranged			Staff

TRANSPORTATION INSTITUTE (T I)

Students interested in this field should consult Mr. Alexander R. MacMillan, Director, Transportation Institute. Offices are located at 309 Harwood Avenue.

ZOOLOGY (ZOO)

Principles of Animal Biology

100-5

1	1	1	8:00-8:50	M	W	F	LS 133	Mr. Downey
2	2		2:00-2:50	M	W	F	LS 133	Mr. Garoian
3		2	2:00-2:50	M	W	F	LS 133	Mr. Klimstra
	3		6:00-7:25 P.M.	M	W		LS 133	Mr. Crenshaw
		3	6:00-7:25 P.M.	M	W		LS 133	Mr. Foote
			6:00-7:25 P.M.	M	W		LS 133	Mr. Garoian
1	1	1	9:00-10:50	M	W	F	LS 130	Staff
2	2	2	9:00-10:50	W	F		LS 132	Staff
T3	T3	T3	11:00-12:50	M	W		LS 130	Staff
4	4	4	11:00-12:50	M	W		LS 132	Staff
5	5	5	1:00-2:50	M	W		LS 130	Staff
6	6	6	1:00-2:50	M	W		LS 132	Staff
7	7	7	3:00-4:50	M	W		LS 130	Staff
8	8	8	3:00-4:50	M	W		LS 132	Staff
T9	T9	T9	5:45-9:15 P.M.	Tu			LS 130	Staff
10	10	10	5:45-9:15 P.M.	Tu			LS 132	Staff
11	11	11	8:00-9:50	Tu	Th		LS 130	Staff
12	12	12	8:00-9:50	Tu	Th		LS 132	Staff
T13	T13	T13	11:00-12:50	Tu	Th		LS 130	Staff
14	14	14	11:00-12:50	Tu	Th		LS 132	Staff
15	15	15	1:00-2:50	Tu	Th		LS 130	Staff
16	16	16	1:00-2:50	Tu	Th		LS 132	Staff
17	17	17	3:00-4:50	Tu	Th		LS 130	Staff
18	18	18	3:00-4:50	Tu	Th		LS 132	Staff
T19	T19	T19	5:45-9:15 P.M.	Tu	Th		LS 130	Staff
20	20	20	5:45-9:15 P.M.	Tu	Th		LS 132	Staff
21	21	21	5:45-9:15 P.M.	M			LS 130	Staff
T22	T22	T22	5:45-9:15 P.M.	M			LS 132	Staff
1			2:00-2:50	Tu	Th		LS 205	Mr. Blackwelder
			1:00-2:50	M	W	F	LS 213	Staff
	1		3:00-3:50	Tu	Th		LS 133	Mr. Blackwelder
			3:00-4:50	M	W	F	LS 243	Mr. Blackwelder
		1	2:00-2:50	Tu	Th		LS 133	Mr. Blackwelder
			1:00-2:50	M	W	F	LS 213	Mr. Blackwelder
2			2:00-2:50	Tu	Th		LS 205	Mr. Blackwelder
			8:00-9:50	Tu	Th	S	LS 213	Mr. Blackwelder

Zoology Laboratory

100A-0

General Invertebrate Zoology

102-5

1	1	1	2:00-2:50	Tu	Th		LS 205	Mr. Blackwelder
			1:00-2:50	M	W	F	LS 213	Staff
	1		3:00-3:50	Tu	Th		LS 133	Mr. Blackwelder
			3:00-4:50	M	W	F	LS 243	Mr. Blackwelder
		1	2:00-2:50	Tu	Th		LS 133	Mr. Blackwelder
			1:00-2:50	M	W	F	LS 213	Mr. Blackwelder
2			2:00-2:50	Tu	Th		LS 205	Mr. Blackwelder
			8:00-9:50	Tu	Th	S	LS 213	Mr. Blackwelder

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
ZOOLOGY (ZOOL) (Continued)								
General Invertebrate Zoology	102-5		2		3:00-3:50 8:00-9:50	Tu Th Tu Th S	LS133 LS213	Mr. Blackwelder Staff
				2	2:00-2:50 8:00-9:50	Tu Th M W F	LS133 LS213	Mr. Blackwelder Mr. Blackwelder
			T3		3:00-3:50 8:00-9:50	Tu Th M W F	LS133 LS213	Mr. Blackwelder Staff
				3	2:00-2:50 11:00-12:50	Tu Th M W F	LS133 LS213	Mr. Blackwelder Staff
			4		3:00-3:50 6:00-8:45 P.M.	Tu Th Tu Th	LS133 LS213	Mr. Blackwelder Mr. Blackwelder
			5		3:00-3:50 11:00-12:50	Tu Th M W F	LS133 LS213	Mr. Blackwelder Staff
General Vertebrate Zoology	103-5	100	1		8:00-8:50 8:00-9:50	M W Tu Th S	LS205 LS208	Mr. Lewis Mr. Galbreath
			1		8:00-8:50 8:00-9:50	M W Tu Th S	LS205 LS208	Mr. Lewis Mr. Cole
				1	9:00-9:50 8:00-9:50	M W Tu Th S	LS205 LS208	Mr. Lewis Mr. Cole
			2		8:00-8:50 3:00-4:50	M W M W F	LS205 LS208	Mr. Lewis Mr. Galbreath
			2		8:00-8:50 11:00-12:50	M W Tu Th S	LS205 LS208	Mr. Lewis Staff
			2		9:00-9:50 1:00-2:50	M W M W F	LS205 LS208	Mr. Lewis Mr. Gersbacher
			3		9:00-9:50 6:00-8:45 P.M.	M W Tu Th	LS205 LS208	Mr. Lewis Mr. Galbreath
Comparative Anatomy of Vertebrates	202-5	102, 103	1		9:00-9:50 8:00-9:50	Tu Th M W F	LS205 LS208	Mr. Gersbacher Mr. Gersbacher
			1		8:00-8:50 8:00-9:50	Tu Th M W F	LS205 LS208	Mr. Galbreath Mr. Galbreath
			2		9:00-9:50 11:00-12:50	Tu Th M W F	LS205 LS208	Mr. Gersbacher Mr. Gersbacher
			2		8:00-8:50 11:00-12:50	Tu Th M W F	LS205 LS208	Mr. Galbreath Staff
Vertebrate Embryology	300-5	202, Jr. Stand.	1		8:00-8:50 8:00-9:50	Tu Th M W F	LS205 LS213	Mr. Foote Mr. Foote

[illegible]

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No. F W S	Time	Days	Bldg. No. Room No.	Instructor
ZOOLOGY (ZOO) (Continued)							
Advanced Invertebrate Zoology	405-4	1 yr. Zool., Sr. Stand.	1	3:00-3:50 3:00-4:50	Tu Th M W	LS 205 LS 213	Staff
			T2	3:00-3:50	Tu Th	LS 205	Mr. Blackwelder
				11:00-12:50	Tu Th	LS 213	Mr. Blackwelder
Protozoology	406-4	1 yr. Zool., Sr. Stand.	1	11:00-11:50 11:00-12:50	M W	LS 204 LS 213	Mr. Blackwelder
				3:00-3:50	Tu Th	LS 204	Mr. Garoian
Parasitology	407-5	1 yr. Zool., Sr. Stand.		11:00-11:50	Tu Th	LS 204	Mr. Garoian
			1	3:00-4:50	M W F	LS 209	Mr. Garoian
Herpetology	408-4	1 yr. Zool., Sr. Stand.		1:00-1:50	M W	LS 204	Mr. Greshaw
			1	1:00-2:50	Tu Th	LS 204	Mr. Greshaw
Vertebrate Paleontology	410-4	1 yr. Zool., Sr. Stand.	1	3:00-3:50	Tu Th	LS 208	Mr. Galbreath
				3:00-4:50	M W	LS 208	Mr. Galbreath
Advanced Entomology	412-4	Basic Crs. in Ent.	1	3:00-3:50	M W	LS 209	Mr. Downey
				2:00-3:50	Tu Th	LS 209	Mr. Downey
Game Birds	459-4	1 yr. Zool., Sr. Stand.	1	6:00-7:50 P.M.	Tu	LS 204	Mr. Klimstra
				8:00-11:50	Tu Th	LS 204	Mr. Klimstra
Mammalogy	461-4	1 yr. Zool., Sr. Stand.	1	3:00-3:50	M W	LS 204	Mr. Klimstra
			T2	3:00-4:50	Tu Th	LS 204	Mr. Klimstra
				3:00-3:50	M W	LS 204	Mr. Klimstra
Game Management	463-4	1 yr. Zool.		8:00-9:50	M	LS 204	Mr. Stains
			1	6:00-7:50 P.M.	M	LS 205	Mr. Stains
				1:00-4:50	M	LS 204	Mr. Stains
			2	6:00-7:50 P.M.	M	LS 205	Mr. Stains
				2:00-5:50 P.M.	M	LS 204	Mr. Stains
Game Mammals	464-4	1 yr. Zool., Sr. Stand.	1	3:00-3:50	Tu Th	LS 204	Mr. Stains
				1:00-4:50	F	LS 204	Mr. Stains
Ichthyology	465-4	1 yr. Zool., Sr. Stand.	1	1:00-1:50	M W	LS 205	Mr. Stains
				1:00-2:50	M W	LS 205	Mr. Lewis
Fish Management	466-4	1 yr. Zool., Sr. Stand.	1	11:00-11:50 10:00-11:50	MTu Th W	LS 204 LS 209	Mr. Lewis
							Mr. Lewis
Bioecology	510-4	Consent of Dept.	1	8:00-8:50	Tu Th	LS 209	Mr. Gersbacher
				8:00-11:50	S	LS 209	Mr. Gersbacher
Limnology	511-4	Consent of Dept.	1	7:00-8:50 P.M.	W	LS 205	Mr. Gersbacher
				8:00-11:50	S	LS 209	Mr. Gersbacher
Animal Geography	512-3	Consent of Dept.	1	6:00-7:25 P.M.	M Th	LS 205	Mr. Gersbacher
Advanced Ornithology	513-3	Consent of Dept.	1	8:00-8:50	M W	LS 204	Mr. Fisher

Factors in Animal Reproduction	540-3	Consent of Dept.	1	8:00-9:50	Tu	LS 204	Mr. Fisher
Advanced Game Management	560-3	Consent of Dept.	1	6:00-7:25 p.m.	Tu	LS 205	Mr. Foote
Fish Culture	566-3	Consent of Dept.	1	1:00-1:50	M W	LS 205	Mr. Klimstra
Readings in Current Zoological Literature	581-3	Consent of Dept.	1	2:00-2:50	M W	LS 205	Mr. Lewis
Graduate Seminar	582A-1/2	Grad. Stand. in Biol.	1	2:00-2:50	MTuW	LS 204	Mr. Galbreath
Graduate Seminar	582B-1/2	Grad. Stand. in Biol.	1	4:00-4:50	Tu	LS 205	Mr. Lewis
Graduate Seminar	582C-1/2	Grad. Stand. in Biol.	1	4:00-4:50	Tu	LS 205	Mr. Fisher
Teaching Zoology in College	583B-1	Consent of Dept.	1	4:00-4:50	Tu	LS 205	Mr. Foote
Teaching Zoology in College	583C-1	Consent of Dept.	1	6:00-6:50 p.m.	W	LS 205	Mr. Fisher
Protozoology Seminar	584A-1	406 or Consent of Dept.	1	6:00-6:50 p.m.	W	LS 205	Mr. Fisher
Protozoology Seminar	584B-1	406 or Consent of Dept.	1	4:00-4:50	Th	LS 204	Mr. Kudo
Protozoology Seminar	584C-1	406 or Consent of Dept.	1	4:00-4:50	Th	LS 204	Mr. Kudo
Special Research in Zoology	596-3 to 12	Consent of Dept.	1	To be arranged	LS 204	Staff	Staff
Master's Research & Thesis	599-2 to 9	Consent of Dept.	1	To be arranged	LS 209	Staff	Staff
Doctoral Research & Thesis	600-3 to 12	Consent of Dept.	1	To be arranged	LS 207, 209	Staff	Staff
VOCATIONAL-TECHNICAL INSTITUTE (VTI)							
Automotive Engines	101A-2 to 7		1	3:00-5:50	MTuWThF	Auto Sh 2	Mr. McDonald
Brake and Steering	102A-2 to 7		2	7:30-9:30 p.m.	M W	Auto Sh 2	Mr. McDonald
Ignition and Carburetion	103A-2 to 7		1	9:00-11:50	MTuWThF	Auto Sh 2	Mr. Ray
Internal Combustion Engines	125A-5		1	7:30-9:30 p.m.	M W	Auto Sh 2	Mr. Ray
Internal Combustion Engines	125A-2 to 5		2	9:00-11:50	MTuWThF	Auto Sh 2	Mr. Ray
Chassis and Brake Systems	126A-5		1	3:00-5:50	MTuWThF	Auto Sh 2	Mr. McDonald
Chassis and Brake Systems	126A-2 to 5		2	2:00-2:50	MTuWThF	Bldg 2 Clrm	Mr. McDonald
Theory of Ignition and Carburetion	127A-5		1	6:30-7:30 p.m.	M W	Bldg 2 Clrm	Mr. McDonald
Transmissions and Drive Trains	128A-3		2	8:00-8:50	MTuWThF	Bldg 1 Clrm	Mr. Ray
Drive Train	201A-2 to 7		1	6:30-7:30 p.m.	M W	Bldg 1 Clrm	Mr. Ray
Multiple Gear-Set Transmissions	202A-2 to 7		1	8:00-8:50	MTuWThF	Bldg 1 Clrm	Mr. Ray
Engine Rebuilding	203A-2 to 7		1	2:00-2:50	MTuWThF	Bldg 2 Clrm	Mr. Ray
Automatic Transmissions	220A-5		1	1:00-1:50	M W	Bldg 2 Clrm	Mr. McDonald
Engine Rebuilding (Theory)	227A-3		1	1:00-1:50	M W	Bldg 1 Clrm	Mr. Willey
Drive Train	201A-2 to 7		1	2:00-4:50	MTuWThF	Auto Sh 1	Mr. Willey
Multiple Gear-Set Transmissions	202A-2 to 7		1	2:00-4:50	MTuWThF	Auto Sh 1	Mr. Willey
Engine Rebuilding	203A-2 to 7		1	2:00-4:50	MTuWThF	Auto Sh 1	Mr. Willey
Automatic Transmissions	220A-5		1	11:00-11:50	Bldg 1 Clrm	Bldg 1 Clrm	Mr. Willey
Engine Rebuilding (Theory)	227A-3		1	2:00-2:50	M W	Bldg 1 Clrm	Mr. Willey

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
VOCATIONAL-TECHNICAL INSTITUTE (VTI) (Continued)									
Accounting I	101B-2 to 7		F	W	S				
			1	1	1	2:00-3:50	MTaWThF	C-14	Mr. Vaughn
			2			7:00-9:00 P.M.	M W F	C-14	Mr. Vaughn
				2		7:00-9:00 P.M.	Tu Th	C-14	Mr. Vaughn
Accounting II	102B-5	101B		1		3:00-3:50	MTaWThF	C-3	Mr. Vaughn
					2	7:00-9:30 P.M.	M W	C-14	Mr. Vaughn
Accounting III	103B-5	102B			1	10:00-10:50	MTaWThF	C-14	Mr. Vaughn
Secretarial Accounting	104B-2 to 5					8:00-8:50	MTaWThF	C-3	Mr. Hill
Fundamentals of Business	126B-3		1	1	1	1:00-1:50	M W F	C-14	Mr. Bizzel
Business Law I	127B-4		1	1		8:00-9:50	M W F	C-3	Mr. Winters
					1	8:00-8:50	MTaWTh	C-3	Mr. Winters
Accounting IV	201B-4	103B	1			2:00-2:50	M WThF	C-3	Mr. Vaughn
Cost Accounting I	202B-4	103B	1			10:00-10:50	MTaW F	C-14	Mr. Cundiff
Accounting V	203B-4	201B			1	9:00-9:50	MTaWThF	C-14	Mr. Cundiff
Cost Accounting II	204B-4	202B		1		11:00-11:50	MTu ThF	C-14	Mr. Cundiff
Business Law II	226B-4	127B	1			8:00-8:50	MTaWTh	C-7	Mr. Winters
Office Supervision and Administration	227B-5		1		1	11:00-11:50	MTaWThF	C-13	Mr. Hill
Record Keeping	229B-2				1	11:00-11:50	MTaWThF	C-14	Mr. Vaughn
Auditing	230B-5	203B			1	10:00-10:50	MTaWThF	C-3	Mr. Cundiff
Federal Taxes	233B-5	103B		1		10:00-10:50	MTaWThF	C-3	Mr. Cundiff
Business Statistics	235B-4			1		2:00-2:50	MTaWTh	C-3	Mr. Vaughn
Real Estate for Home Builders	250B-3			1		11:00-11:50	M W F	T-6	Mr. Lougeay
Cosmetology Laboratory I	101C-6 to 12		1			7:30-11:00	MTaWThF	Cos Lab	Staff
			2			11:00-2:30	MTaWThF	Cos Lab	Mrs. York
			3			2:30-6:00	MTaWThF	Cos Lab	Mrs. Wilson
Cosmetology Laboratory II	102C-6 to 12	101C		1		7:30-11:00	MTaWThF	Cos Lab	Staff
				2		11:00-2:30	MTaWThF	Cos Lab	Mrs. York
				3		2:30-6:00	MTaWThF	Cos Lab	Mrs. Wilson
Cosmetology Laboratory III	103C-6 to 12	102C			1	7:30-11:00	MTaWThF	Cos Lab	Staff
				2		11:00-2:30	MTaWThF	Cos Lab	Mrs. York
				3		2:30-6:00	MTaWThF	Cos Lab	Mrs. Wilson
Cosmetology Theory I	125C-5		1			11:00-12:00	MTaWThF	C-2	Staff
			2			3:00-4:00	MTaWThF	C-2	Mrs. York
			3			12:00-1:00	MTaWThF	C-2	Mrs. Wilson

Cosmetology Theory II	126C-5	125C	1	11:00-12:00	MTuWThF	C-2	Staff
			2	3:00-4:00	MTuWThF	C-2	Mrs. York
			3	12:00-1:00	MTuWThF	C-2	Mrs. Wilson
Cosmetology Theory III	127C-5	126C	1	11:00-12:00	MTuWThF	C-2	Staff
			2	3:00-4:00	MTuWThF	C-2	Mrs. York
			3	12:00-1:00	MTuWThF	C-2	Mrs. Wilson
Student Teaching in Cosmetology	201C-4 to 12		1	To be arranged			Staff
Methods of Teaching Cosmetology	225C-4 to 12		1	To be arranged			Staff
Machine Drafting and Design I	101D-2 to 7		1	2:00-4:50	MTuWThF	Apt Lab	Mr. Lampman
			2	6:45-9:45 P.M.	M W F	Apt Lab	Mr. Lampman
Machine Drafting and Design II	102D-2 to 7		1	2:00-4:50	MTuWTh	Apt Lab	Mr. Lampman
Machine Drafting and Design III	103D-2 to 7		1	2:00-4:50	M W F	Bldg 3 Aud	Mr. Lampman
Architectural Projections	110D-2 to 7		1	8:00-10:50	MTuWThF	T-5	Mr. Gettle
			2	2:00-4:50	MTuWThF	T-5	Mr. White
Residential Architecture I	115D-2 to 7		1	8:00-10:50	MTuWThF	T-1	Mr. Lougey
Residential Architecture II	116D-3	115D	1	9:00-11:50	Tu Th	T-1	Mr. Anschutz
Residential Architecture III	117D-3	116D	1	8:00-10:50	Tu Th	T-1	Mr. White
Architectural Design I	121D-4	110D	1	8:00-10:50	M W F	T-7	Mr. Anschutz
			2	2:00-4:50	Tu ThF	T-7	Mr. Anschutz
Machine Drafting and Design Theory I	125D-3		1	1:00-1:50	M W F	T-1	Mr. Lampman
			2	5:45-6:45 P.M.	M W F	T-1	Mr. Lampman
Machine Drafting and Design Theory II	126D-3		1	1:00-1:50	M W F	Apt Lab	Mr. Lampman
Machine Drafting and Design Theory III	127D-3		1	1:00-1:50	M W F	T-6	Mr. Lampman
Architectural Rendering I	146D-3		1	2:00-4:50	M W F	Bldg 3 Aud	Mr. Lampman
			2	8:00-10:50	M W	Annex	Mr. Lougey
Architectural Rendering II	147D-3	146D	1	8:00-10:50	Tu Th	Annex	Mr. Anschutz
			2	8:00-10:50	Tu Th	Annex	Mr. Lougey
Architectural Rendering III	148D-3	147D	1	2:00-4:50	M W	Annex	Mr. Lougey
			2	8:00-10:50	M W	Annex	Mr. Lougey
Introduction to Architecture	150D-3		1	1:00-1:50	M W F	Annex	Mr. Lougey
Materials and Methods of Construction I	151D-3	110D, 115D	1	2:00-4:50	Tu Th	Bldg 3	Mr. Lougey
			2	8:00-11:50	Tu Th	T-5	Mr. Gettle
			1	9:00-11:50	M W	T-1	Mr. Gettle
Site Engineering	152D-2	110D	1	8:00-9:50	Tu Th	T-6	Mr. Lougey
			2	8:00-9:50	M W	T-6	Mr. White
Site Planning and Construction I	153D-3	110D	1	8:00-9:50	M W F	Wood Lab	Mr. Lougey
Introduction to Residential Building	154D-3		1	1:00-1:50	M W F	T-6	Mr. Gettle
Technical Drafting I	175D-3		1	11:00-11:50	MTuWThF	T-1	Mr. Nagel
Technical Drafting II	176D-3		1	11:00-11:50	MTuWThF	T-1	Mr. Nagel
Technical Drafting III	177D-3		1	12:00-12:50	MTuWThF	Bldg 4 Clrm	Mr. Nagel

Title	Course No. & Hours	Prerequisite	Cr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
VOCATIONAL-TECHNICAL INSTITUTE (VTI) (Continued)									
Machine Drafting and Design IV	201D-2 to 7		1			9:00-11:50	MTuWThF	Apt Lab	Mr. Muhich
Machine Drafting and Design V	202D-2 to 7			1		9:00-11:50	MTuWThF	Apt Lab	Mr. Muhich
Machine Drafting and Design VI	203D-2 to 7				1	9:00-11:50	MTuWThF	Apt Lab	Mr. Muhich
Construction I	210D-3	250D				2:00-4:50	Tu Th	Bldg 3	Mr. Anschutz
Construction II	211D-3	210D	1			1:00-4:50	M W	Bldg 3	Mr. Anschutz
Construction III	212D-3	211D			1	2:00-4:50	Tu Th	Bldg 3	Staff
Architectural Design II	220D-2 to 6	121D			2	8:00-11:50	M W F	T-5	Mr. Gettle
						12:00-3:50	M W F	T-5	Mr. Gettle
Architectural Design III	221D-2 to 6	220D	1			8:00-11:50	M W F	T-7	Mr. Anschutz
Architectural Design IV	222D-2 to 6	221D		1		8:00-11:50	M W F	T-5	Mr. Gettle
Machine Drafting and Design Theory IV	225D-3		1			1:00-1:50	M W F	Apt Lab	Mr. Muhich
Machine Drafting and Design Theory V	226D-3			1		1:00-1:50	M W F	Apt Lab	Mr. Muhich
Machine Drafting and Design Theory VI	227D-3				1	1:00-1:50	M W F	Apt Lab	Mr. Muhich
Mechanics and Strength of Materials	247D-4	110G			1	4:00-4:50	MTuWThF	T-6	Mr. Gettle
Materials and Methods of Construction II	250D-3	151D	1			8:00-10:50	Tu Th	T-7	Mr. White
					1	8:00-10:50	M W	T-1	Mr. White
Materials and Methods of Construction III	251D-3	250D	1			8:00-10:50	Tu Th	Bldg 4 Clrm	Mr. Anschutz
				1		8:00-10:50	Tu Th	T-5	Mr. Gettle
Materials and Methods of Construction IV	252D-2 to 6	251D		1		8:00-10:50	M WThF	Wood Lab	Mr. White
					1	2:00-4:50	MTuWTh	T-7	Mr. White
Mechanical Equipment of Buildings	254D-4					11:00-11:50	MTu ThF	T-6	Mr. Lougeay
Structural Elements	258D-4	110D	1			11:00-11:50	MTu ThF	T-6	Mr. Lougeay
Architectural Design V	259D-2 to 6	222D			1	8:00-10:50	MTu ThF	T-7	Mr. Anschutz
Materials and Methods of Construction V	260D-2 to 6	252D			1	8:00-10:50	MTu ThF	T-1	Mr. White
Sanitary Services for Residential Buildings	265D-2		1			2:00-2:50	M W F	Bldg 3 Aud	Mr. Gettle
Electrical Services for Residential Buildings	266D-2		1			10:00-10:50	M W F	T-6	Mr. White
Heating and Air-Conditioning for Residential Buildings	276D-2			1		11:00-11:50	Tu Th	T-6	Mr. Gettle
History of Architecture	280D-3		1			2:00-2:50	M W F	T-6	Mr. White
Strength of Materials	284D-3	247D		1		1:00-1:50	M W F	T-7	Mr. Gettle
Theory of Structures II	302D-3	284D			1	1:00-1:50	M W F	T-6	Mr. Gettle
Introductory Woodworking I	101F-2 to 8		1			8:00-10:50	MTuWThF	Wood Lab	Mr. Osborn
					1	1:00-3:50	MTuWThF	Wood Lab	Mr. Osborn

Cabinet and Millwork	102F-2 to 8	1	8:00-10:50	MTuWThF	Wood Lab	Mr. Osborn
Furniture Construction	103F-2 to 8	1	8:00-10:50	MTuWThF	Wood Lab	Mr. Osborn
Wood Technology	128F-2 to 4	1	1:00-1:50	M W	Wood Clrm	Mr. Osborn
Lumber Seasoning	130F-2 to 4	1	1:00-1:50	M W	Wood Clrm	Mr. Rice
Lumber Grading	131F-2	1	1:00-1:50	W F	Wood Clrm	Mr. Rice
Light Frame Construction	201F-2 to 8	1	9:00-11:50	MTuWThF	Wood Lab	Mr. Rice
Pre-Fabricated Frame Structures	202F-2 to 8	1	9:00-11:50	MTuWThF	Wood Lab	Mr. Rice
Wood Production Manufacturing	203F-2 to 8	1	9:00-11:50	MTuWThF	Wood Lab	Mr. Rice
Wood Finishing	229F-2 to 4	1	2:00-3:50	MTuWThF	Wood Clrm	Mr. Rice
English Fundamentals	100G-3	1	8:00-8:50	MTuWThF	C-8	Mrs. Morris
		2	9:00-9:50	MTuWThF	C-8	Mr. Crowe
		3	9:00-9:50	MTuWThF	C-7	Mrs. Morris
		4	11:00-11:50	MTuWThF	C-8	Mr. Crowe
		5	2:00-2:50	MTuWThF	C-8	Mrs. Morris
		6	6:00-8:30 P.M.	Tu Th	C-8	Staff
		1	8:00-8:50	MTuWThF	C-7	Mr. Crowe
		2	9:00-9:50	MTuWThF	C-7	Mrs. Morris
		3	9:00-9:50	MTuWThF	C-5	Mr. Crowe
		4	2:00-2:50	MTuWThF	C-7	Mrs. Morris
		1	8:00-8:50	MTuWThF	C-7	Mr. Crowe
Business Correspondence	101G-3	1	8:00-8:50	MTuWThF	C-14	Mr. Crowe
		2	8:00-8:50	MTuWThF	C-8	Mr. Crowe
		2	2:00-2:50	MTuWThF	C-8	Mrs. Morris
		1	10:00-10:50	MTuWThF	C-7	Mr. Crowe
English Problems Analysis	102G-3	1	3:00-3:50	MTuWThF	C-7	Mr. Crowe
Mathematics Fundamentals	104G-5	1	8:00-8:50	MTuWThF	C-6	Mr. Crenshaw
		2	9:00-9:50	MTuWThF	C-6	Mrs. Bleyer
		3	10:00-10:50	MTuWThF	C-6	Mr. Crenshaw
		4	11:00-11:50	MTuWThF	C-6	Mrs. Bleyer
		5	3:00-3:50	MTuWThF	C-6	Mr. Crenshaw
Technical Mathematics	107G-5	1	8:00-8:50	MTuWThF	C-6	Mrs. Bleyer
		2	3:00-3:50	MTuWThF	C-8	Mr. Crenshaw
		1	8:00-8:50	MTuWThF	C-6	Mr. Crenshaw
		2	9:00-9:50	MTuWThF	C-6	Mrs. Bleyer
		1	10:00-10:50	MTuWThF	C-8	Mr. Crenshaw
		2	11:00-11:50	MTuWThF	C-7	Mrs. Bleyer

Economic Principles
Psychology of Human Relations

127G-3
142G-4

1	11:00-11:50	MTuWThF	Miss Danielson
2	2:00-2:50	MTuWThF	Miss Danielson
3	3:00-3:50	MTuWThF	Miss Danielson
	1 10:00-10:50	MTuWThF	Miss Danielson
	2 2:00-2:50	MTuWThF	Miss Danielson
	3 3:00-3:50	MTuWThF	Miss Danielson
	1 2:00-2:50	M W F	Mr. McDermott
	1 9:00-9:50	MTuWTh	Mr. McCarty
	2 10:00-10:50	MTuWTh	Mr. McCarty
	3 3:00-3:50	MTuWTh	Mr. McCarty
	2 11:00-11:50	MTuWTh	Mr. McCarty
	3 3:00-3:50	MTuWTh	Mr. McCarty
	1 11:00-11:50	MTuWTh	Mr. McCarty
	2 2:00-2:50	MTuWTh	Mr. McCarty
	3 4:00-4:50	MTuWTh	Mr. McCarty

Ethics for Home Builders
Management and Labor Relations
Problems

201G-2
232G-4

1	11:00-11:50	Tu Th	Mr. White
1	1:00-1:50	M	Mr. McDermott
	2:00-2:50	MTuWThF	Mr. McDermott
2	11:00-11:50	MTuWTh	Mr. McDermott

Stenograph Theory

120H-2 to 7

1	2:00-3:50	MTuWThF	Staff
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Print Shop I

101J-2 to 7

1	9:00-11:50	Bldg 2 Pr Lab	Mr. Modlin
	102J-2 to 7	Bldg 2 Pr Lab	Mr. Brown
	103J-2 to 7	Bldg 2 Pr Lab	Mr. Brown
	125J-5	Bldg 1 Clrm	Mr. Modlin
	126J-3	Bldg 2 Clrm	Mr. Brown
	127J-3	Bldg 2 Clrm	Mr. Brown
	152J-3	Bldg 2 Clrm	Mr. Modlin
	153J-3	T-7	Mr. Brown

Print Shop IV

201J-2 to 7

1	9:00-11:50	Bldg 2 Pr Sh	Mr. Brown
	202J-2 to 7	Bldg 2 Pr Sh	Mr. Modlin
	203J-2 to 7	Bldg 2 Pr Sh	Mr. Modlin
	225J-3	Bldg 2 Clrm	Mr. Brown
	226J-3	Bldg 2 Clrm	Mr. Modlin
	227J-3	Bldg 2 Clrm	Mr. Modlin
	251J-3	Bldg 2	Mr. Modlin

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor	
VOCATIONAL-TECHNICAL INSTITUTE (VTI) (Continued)										
Calculating Machines I	101K-3		1			8:00-8:50	MTuWThF	C-9	Mr. Johnston	
				1		2:00-2:50	MTuWThF	C-9	Mr. Johnston	
					1	11:00-11:50	MTuWThF	C-9	Mr. Johnston	
Calculating Machines II	102K-3	101K	1		1	2:00-2:50	MTuWThF	C-9	Mr. Johnston	
Calculating Machines III	103K-3	102K	1			8:00-8:50	MTuWThF	C-9	Mr. Johnston	
			1			2:00-2:50	MTuWThF	C-9	Mr. Johnston	
			1			8:00-8:50	MTuWThF	C-9	Mr. Johnston	
Clerical Procedures	111L-3		1		1	9:00-9:50	MTuWThF	C-9	Mr. Johnston	
						11:00-11:50	MTuWThF	C-3	Mr. Bizzell	
			1			2:00-4:50	MTuWThF	MTool Lab	Mr. Crookshank	
						2:00-4:50	MTuWThF	MTool Lab	Mr. Crookshank	
Lathe and Bench Work Laboratory	101M-2 to 7									
Shaper and Planer Laboratory	102M-2 to 7		1			2:00-4:50	MTuWThF	MTool Lab	Mr. Crookshank	
Precision Measurement	103M-2 to 7									
Technique Laboratory	125M-5		1			12:00-12:50	MTuWThF	MS Clrm	Mr. Crookshank	
						1:00-1:50	M W F	MTool Clrm	Mr. Crookshank	
						1:00-1:50	M W F	MTool Clrm	Mr. Crookshank	
						10:00-10:50	M W F	MS Clrm	Mr. Nagel	
						10:00-10:50	M W F	MS Clrm	Mr. Nagel	
Milling Machine Laboratory	201M-2 to 7	225M	1			8:00-10:50	MTuWThF	MTool Lab	Mr. Traylor	
						8:00-10:50	MTuWThF	MTool Lab	Mr. Traylor	
					1	8:00-10:50	MTuWThF	MTool Lab	Mr. Traylor	
			1			11:00-11:50	M W F	MS Clrm	Mr. Traylor	
						11:00-11:50	M W F	Bldg 2 Clrm	Mr. Traylor	
					1	11:00-11:50	M W F	MS Clrm	Mr. Traylor	
			1			2:00-2:50	MTuWThF	Met Lab	Mr. Griswold	
					2	12:00-12:50	MTuWThF	Met Lab	Mr. Griswold	
					3	8:00-8:50	MTuWThF	Met Lab	Mr. Griswold	
Metallurgy-Precious Metals	276M-3				1	10:00-10:50	MTuWThF	Met Lab	Mr. Griswold	
						10:00-10:50	MTuWThF	Met Lab	Mr. Griswold	
					1	11:00-11:50	MTuWThF	Met Lab	Mr. Griswold	
					2	12:00-12:50	MTuWThF	Bldg 2	Mr. Traylor	
					3	8:00-8:50	MTuWThF	Bldg 2	Mr. Traylor	
Drawing Composition I	101N-3		1		1	1:00-3:50	M W	C-14	Mr. Hoffman	
			1		1	1:00-3:50	M W	C-10	Mr. Hoffman	

Drawing Composition III Figure Drawing I	103N-3 125N-3	1 1	1 1	1 1	1:00-3:50 9:00-9:50	M W M W F	C-10 C-10	Mr. Boza Mr. Hoffman
Figure Drawing II Figure Drawing III	126N-3 127N-3	1 1	1 1	1 1	9:00-10:50 9:00-10:50	M W F M W F	C-10 C-10	Mr. Boza Mr. Boza
Lettering Layout I Lettering Layout II	130N-3 131N-3	1 1	1 1	1 1	9:00-10:50 9:00-10:50	Tu Th Tu Th	C-10 C-10	Mr. Hoffman Mr. Hoffman
Lettering Layout III Advertising Illustration I	132N-3 140N-3	1 1	1 1	1 1	9:00-10:50 2:00-4:50	Tu Th Tu Th	C-10 C-10	Mr. Boza Mr. Hoffman
Advertising Illustration II Advertising Illustration III	141N-3 142N-3	1 1	1 1	1 1	2:00-4:50 10:00-10:50	Tu Th M W F	C-10 C-10	Mr. Hoffman Mr. Hoffman
Art Appreciation	150N-3	1	1	1	10:00-10:50	M W F	C-10	Mr. Hoffman
Advertising Layout and Production I Advertising Layout and Production II	201N-3 to 12 202N-3 to 12	1 1	1 1	1 1	1:00-3:50 1:00-3:50	M W M W	C-10 C-10	Mr. Boza Mr. Boza
Advertising Layout and Production III Advertising and Story Illustration I	203N-3 to 12 210N-3 to 12	1 1	1 1	1 1	1:00-3:50 9:00-10:50	M W M W F	C-10 C-10	Mr. Boza Mr. Boza
Advertising and Story Illustration II Advertising and Story Illustration III	211N-3 to 12 212N-3 to 12	1 1	1 1	1 1	9:00-10:50 9:00-10:50	M W F M W F	C-10 C-10	Mr. Boza Mr. Boza
Fashion Illustration I Fashion Illustration II	220N-3 to 12 221N-3 to 12	1 1	1 1	1 1	9:00-9:50 9:00-9:50	Tu Th Tu Th	C-10 C-10	Mr. Boza Mr. Boza
Fashion Illustration III Technical Illustration I	222N-3 to 12 230N-3 to 12	1 1	1 1	1 1	9:00-9:50 2:00-4:50	Tu Th Tu Th	C-10 C-10	Mr. Boza Mr. Boza
Technical Illustration II Technical Illustration III	231N-3 to 12 232N-3 to 12	1 1	1 1	1 1	2:00-4:50 2:00-4:50	Tu Th Tu Th	C-10 C-10	Mr. Boza Mr. Boza
Nursing Practice and Theory I	101P-2 to 7	1	1	1	8:00-12:00 10:00-11:00	M Tu	V-2 V-2	Mrs. Mitchell Mrs. Mitchell
Nursing Practice and Theory II	102P-3	1	1	1	2:00-3:00 8:00-10:00 10:00-12:00 2:00-4:00 8:00-10:00 10:00-12:00 10:00-11:00 1:00-4:00 2:00-4:00 8:00-9:00 11:00-12:00 To be arranged 2:00-4:00	Tu W Th Th M W F M Th Tu Tu Th Tu Th Tu Tu Th	V-2 V-2 V-2 V-2 V-2 V-2 V-2 V-2 V-2 V-2 V-2 Hospital V-2	Mrs. Mitchell Mrs. Mitchell Mrs. Mitchell Mrs. Mitchell Mrs. Mitchell Mrs. Mitchell Mrs. Mitchell Mrs. Mitchell Mrs. Mitchell Mrs. Christensen Mrs. Christensen Mrs. Borgsmiller Mrs. Mitchell
Clinical Theory and Practice I	103P-4	1	1	1	11:00-12:00	Tu Th	Hospital	Mrs. Mitchell

Title	Course No. & Hours	Prerequisite	Or. & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
VOCATIONAL-TECHNICAL INSTITUTE (VTI) (Continued)									
Clinical Theory and Practice II	104P-8		1		1	To be arranged 1:00-3:00	W F	Hospital V-2	Mrs. Borgsmiller
Clinical Theory and Practice III	105P-8			1		To be arranged 1:00-3:00	W F	Hospital V-4	Mrs. Borgsmiller
Homemaking	130P-2		1		1	1:00-1:50	M W F	HEc	Mrs. Borgsmiller
Foods	131P-4		1		1	2:00-3:50	M F	HEc	Staff Staff
Health I	132P-3		1		1	8:00-8:50	Tu Th	V-2	Mrs. Christensen
						11:00-11:50	Tu	V-2	Mrs. Christensen
Health II	133P-1			1		9:00-9:50	Tu Th	V-2	Mrs. Mitchell
						9:00-9:50	Tu Th	V-2	Mrs. Mitchell
						11:00-11:50	Tu	V-2	Mrs. Christensen
Introduction to Retailing	124R-4		1			10:00-10:50	MTuWTh	C-11	Mr. Moore
Salesmanship	127R-2 to 6		1	1		7:00-9:00 P.M.	M W	C-11	Mr. Moore
			2			9:00-9:50	M W F	C-2	Mr. Moore
						7:00-8:30 P.M.	M W	C-11	Mr. Moore
				1		1:00-1:50	M W F	C-2	Mr. Moore
					1	1:00-1:50	M W F	C-11	Mr. Moore
Product Analysis	176R-3		1		2	7:00-8:30 P.M.	Tu Th	C-11	Mr. Elder
						1:00-1:50	M W F	C-11	Mr. Elder
				1		7:00-8:30 P.M.	Tu Th	C-11	Mr. Elder
Product Information Laboratory	177R-2 to 15 176R			1		10:00-11:50	MTuWThF	C-11	Miss Burnett
				2		2:00-3:50	MTuWThF	C-11	Mr. Moore
					1	10:00-11:50	MTuWThF	C-11	Miss Burnett
					2	2:00-3:50	MTuWThF	C-11	Mr. Moore
Retail Mathematics	179R-5				1	8:00-8:50	MTuWThF	C-12	Miss Burnett
Co-operative Work Experience	201R-4 to 20		1	1	1	To be arranged			Mr. Elder
			2		2	To be arranged			Miss Burnett
Merchandising Principles	205R-4			2		1:00-1:50	W	C-12	Mr. Moore
Records and Statistics	206R-5	205R	1		1	2:00-2:50	MTuWThF	C-12	Miss Burnett
						9:00-9:50	MTuWThF	C-13	Mr. Vaughn
Sales Promotion	207R-2 to 6		1			10:00-10:50	Tu Th	C-13	Mr. Vaughn
						7:00-9:00 P.M.	Tu Th	C-11	Mr. Elder

Fashion Merchandising	208R-2 to 6	1	8:00-8:50	1	1	8:00-8:50	W	C-11	Mr. Elder
		1	9:00-9:50			9:00-9:50	MTuWThF	C-11	Mr. Elder
			8:00-8:50			8:00-8:50	MTuWThF	C-11	Miss Burnett
			1:00-1:50			1:00-1:50	Tu	C-11	Miss Burnett
			3:00-3:50	1		3:00-3:50	MTuWTh	C-11	Miss Burnett
Retail Store Organization and Management	224R-4		9:00-9:50	1		9:00-9:50	Th	C-12	Mr. Elder
			10:00-10:50			10:00-10:50	MTuWThF	C-12	Mr. Elder
		1	11:00-11:50			11:00-11:50	MTuWThF	C-11	Miss Burnett
			11:00-11:50			11:00-11:50	MTuWThF	C-11	Miss Burnett
		1	11:00-11:50	1		11:00-11:50	MTuWThF	C-12	Mr. Moore
Typewriting I	101S-3	1	10:00-10:50	1		10:00-10:50	MTuWThF	C-4	Miss Forker
		2	7:00-9:30 P.M.	2		7:00-9:30 P.M.	Tu Th	C-4	Mr. Johnston
			8:00-8:50	1		8:00-8:50	MTuWThF	C-4	Mr. Johnston
			8:00-8:50			8:00-8:50	MTuWThF	C-4	Mr. Bizzel
			8:00-8:50	1		8:00-8:50	MTuWThF	C-4	Staff
Typewriting II	102S-3	1	10:00-10:50	1		10:00-10:50	MTuWThF	C-4	Mr. Johnston
		2	8:00-9:30 P.M.	2		8:00-9:30 P.M.	M W F	C-4	Mr. Bizzel
		1	2:00-2:50	1		2:00-2:50	MTuWThF	C-4	Staff
			7:00-9:30 P.M.	2		7:00-9:30 P.M.	M W	C-4	Mr. Bizzel
			9:00-9:50	1		9:00-9:50	MTuWThF	C-5	Miss Forker
Shorthand Theory	104S-2 to 7	1	11:00-11:50	1		11:00-11:50	MTuWThF	C-5	Miss Forker
		2	7:00-9:30 P.M.	2		7:00-9:30 P.M.	M W	C-5	Miss Forker
		1	2:00-2:50	1		2:00-2:50	MTuWThF	C-15	Miss Garrison
			10:00-10:50	2		10:00-10:50	MTuWThF	C-15	Miss Forker
			8:00-9:30 P.M.	2		8:00-9:30 P.M.	Tu Th	C-15	Staff
Filing	107S-2	2	11:00-11:50	2		11:00-11:50	MTuWThF	C-5	Miss Forker
		1	7:00-9:30 P.M.	1		7:00-9:30 P.M.	M W	C-5	Miss Forker
		1	2:00-2:50	1		2:00-2:50	MTuWThF	C-15	Miss Garrison
			10:00-10:50	2		10:00-10:50	MTuWThF	C-15	Miss Forker
			8:00-9:30 P.M.	2		8:00-9:30 P.M.	Tu Th	C-15	Staff
Shorthand Dictation I	204S-2 to 5	1	2:00-2:50	1		2:00-2:50	MTuWThF	C-13	Miss Forker
		2	8:00-9:30 P.M.	2		8:00-9:30 P.M.	Tu Th	C-15	Staff
		1	3:00-3:50	1		3:00-3:50	MTuWThF	C-4	Mr. Johnston
		1	9:00-9:50	1		9:00-9:50	MTuWThF	C-13	Miss Forker
		1	3:00-3:50	1		3:00-3:50	MTuWThF	C-15	Miss Forker
Typewriting IV	205S-3	1	3:00-3:50	1		3:00-3:50	M W F	C-15	Miss Garrison
		1	8:00-8:50	1		8:00-8:50	MTuWThF	C-15	Miss Garrison
		1	1:00-1:50	1		1:00-1:50	M W F	C-15	Mr. Johnston
		1	9:00-9:50	1		9:00-9:50	MTuWThF	C-15	Miss Forker
		1	10:00-10:50	1		10:00-10:50	MTuWThF	C-15	Miss Garrison
Shorthand Dictation II	206S-2 to 5	1	11:00-11:50	1		11:00-11:50	MTuWThF	C-4	Miss Garrison
		1	8:00-8:50	1		8:00-8:50	MTuWThF	C-15	Miss Garrison
		1	3:00-3:50	1		3:00-3:50	MTuWThF	C-3	Mr. Tooley
		1	4:00-4:50	1		4:00-4:50	MTuWThF	C-15	Mr. Tooley
Transcription I	207S-2	1	10:00-10:50	1		10:00-10:50	MTuWThF	C-15	Miss Garrison
		1	8:00-8:50	1		8:00-8:50	MTuWThF	C-15	Miss Garrison
		1	1:00-1:50	1		1:00-1:50	M W F	C-15	Mr. Johnston
		1	9:00-9:50	1		9:00-9:50	MTuWThF	C-15	Miss Forker
		1	10:00-10:50	1		10:00-10:50	MTuWThF	C-4	Miss Garrison
Shorthand Dictation III	208S-2 to 5	1	11:00-11:50	1		11:00-11:50	MTuWThF	C-15	Miss Garrison
		1	8:00-8:50	1		8:00-8:50	MTuWThF	C-13	Miss Garrison
		1	3:00-						

Title	Course No. & Hours	Prerequisite	Qr. & Sec. No.		Time	Days	Bldg. No. Room No.	Instructor
VOCATIONAL-TECHNICAL INSTITUTE (VTI) (Continued)								
Medical Dictation II	227S-2 to 5	225S	1		3:00-3:50	MTuWThF	C-14	Mr. Tooley
Medical Transcription II	228S-2		1		4:00-4:50	MTuWThF	C-15	Mr. Tooley
Legal Transcription	230S-2		1		9:00-9:50	MTuWThF	C-15	Miss Garrison
Dictation IV	233S-2 to 5	209S	1		8:00-8:50	MTuWThF	C-15	Miss Garrison
Transcription IV	234S-2	221S		1	9:00-9:50	MTuWThF	C-15	Miss Garrison
Audio Systems	101T-2 to 7		1		8:00-10:50	MTuWThF	U-6	Mr. Christensen
			2		2:00-4:50	MTuWThF	U-6	Mr. Caldwell
					8:00-10:50	MTuWThF	U-6	Mr. Caldwell
Electrical Tests and Measurements	102T-2 to 7	101T	1		2:00-4:50	MTuWThF	U-6	Mr. Christensen
Circuit Analysis I	103T-2 to 7	102T		1	8:00-10:50	MTuWThF	U-6	Mr. Christensen
Principles of Electronics	125T-2 to 5		1		2:00-2:50	MTuWThF	U-7	Mr. Christensen
			2		11:00-11:50	MTuWThF	U-7	Mr. Caldwell
					2:00-2:50	MTuWThF	U-7	Mr. Caldwell
Fundamentals of Electronic Circuitry	126T-2 to 5	125T	1		11:00-11:50	MTuWThF	U-7	Mr. Christensen
Principles of Analysis and Diagnosis I	127T-2 to 5	126T		1	11:00-11:50	MTuWThF	U-7	Mr. Caldwell
				1	2:00-2:50	MTuWThF	U-7	Mr. Christensen
Circuit Analysis II	201T-2 to 5	103T	1		2:00-3:50	MTuWThF	U-8	Mr. Green
High Frequency Tests and Measurements	202T-2 to 5	201T	1		10:00-11:50	MTuWThF	U-8	Mr. Schultz
				1	2:00-3:50	MTuWThF	U-8	Mr. Green
Circuit Analysis and Alignment	203T-2 to 5	202T	1		10:00-11:50	MTuWThF	U-8	Mr. Schultz
Principles of Analysis and Diagnosis II	225T-2 to 5	127T		1	10:00-11:50	MTuWThF	U-7	Mr. Green
Fundamentals of Antennas and Television Circuits	226T-2 to 5	225T	1		8:00-8:50	MTuWThF	U-7	Mr. Schultz
Principles of Analysis and Diagnosis III	227T-2 to 5	226T		1	10:00-10:50	MTuWThF	U-7	Mr. Green
					8:00-8:50	MTuWThF	U-7	Mr. Schultz
					9:00-9:50	MTuWThF	U-7	Mr. Schultz
Federal Communications Commission License	228T-3	127T		1	9:00-9:50	M W F	U-7	Mr. Green
Fundamentals of Color TV	229T-3	226T	1		9:00-9:50	M W F	U-7	Mr. Schultz
					9:00-8:50	M W F	U-7	Mr. Green
Oxy-Acetylene Welding Shop	101W-2 to 7		1		8:00-10:50	MTuWThF	Weld Sh	Mr. Griswold
				1	2:00-4:50	MTuWThF	Weld Sh	Mr. Griswold

Arc Welding Shop I	102W-2 to 7	1	1	8:00-10:50	MTuWThF	Weld Sh	Mr. Dallman
Arc Welding Shop II	103W-2 to 7	1	1	2:00-4:50	MTuWThF	Weld Sh	Mr. Dallman
Theory of Oxy-Acetylene Welding	125W-3	1	1	8:00-10:50	MTuWThF	Weld Sh	Mr. Dallman
Theory of Arc Welding	127W-3	1	1	2:00-4:50	MTuWThF	Weld Sh	Mr. Dallman
		1	1	1:00-1:50	M W F	U-1	Mr. Griswold
		1	1	1:00-1:50	M W F	Bldg 2 Clrm	Mr. Dallman
Job Orientation (Electronics)	201X-2	1	1	9:00-9:50	Tu Th	U-7	Mr. Green
Job Orientation (Architecture)	201X-2	2	2	11:00-11:50	Tu Th	T-6	Mr. White
Job Orientation (Building Construction)	201X-2	3	3	2:00-2:50	Tu Th	T-6	Mr. White
Job Orientation (Retailing)	201X-2	1	1	1:00-1:50	M W	C-11	Mr. Elder
Job Orientation (Commercial Art)	201X-2	1	4	2 10:00-10:50	Tu Th	C-10	Mr. Boza
Job Orientation (Automotive Technology)	201X-2	2	3	3 1:00-1:50	M W	C-6	Mr. Willey
Job Orientation (Business)	201X-2	2	4	12:00-12:50	M W	C-7	Mr. Johnston
Professional Ethics	202X-2	1	1	8:00-8:50	Tu Th	Dent Clrm	Mr. Webber
Tooth Anatomy and Nomenclature	101Y-2 to 9	1	1	8:00-12:50	M	Dental Lab	Mr. Webber
		2	2	1:00-5:50	TuWThF	Dental Lab	Mr. Webber
				2:00-5:50	M	Dental Lab	Mr. Webber
				1:00-4:50	Tu Th	Dental Lab	Mr. Webber
Removable Partial Dentures	102Y-2 to 9	1	1	8:00-12:50	M	Dental Lab	Mr. Joy
		2	2	8:00-11:50	TuWThF	Dental Lab	Mr. Joy
				1:00-5:50	M	Dental Lab	Mr. Joy
				2:00-5:50	Tu Th	Dental Lab	Mr. Joy
				1:00-4:50	W F	Dental Lab	Mr. Joy
Complete Dental Construction	103Y-2 to 9	1	1	8:00-12:50	M	Dental Lab	Mr. Joy
		2	2	8:00-11:50	TuWThF	Dental Lab	Mr. Joy
				1:00-5:50	M	Dental Lab	Mr. Joy
				2:00-5:50	Tu Th	Dental Lab	Mr. Joy
				1:00-4:50	W F	Dental Lab	Mr. Joy
Chemical and Physical Principles	113Y-3	1	1	3:00-3:50	M W F	U-1	Mr. Harbison
Oral Anatomy	128Y-2	2	2	10:00-10:50	Tu Th	Dental Clrm	Mr. Webber
		1	1	2:00-2:50	Tu Th	Dental Clrm	Mr. Webber
		2	2	9:00-9:50	Tu Th	Dental Clrm	Mr. Webber
				11:00-11:50	M Th	Dental Clrm	Mr. Webber
				3:00-3:50	Tu Th	Dental Clrm	Mr. Webber
Beginning Crown and Bridgework	201Y-2 to 9	1	1	8:00-12:50	M	Dental Lab	Mr. Joy
				8:00-11:50	TuWThF	Dental Lab	Mr. Joy

Title	Course No. & Hours	Prerequisite	Or: & Sec. No.			Time	Days	Bldg. No. Room No.	Instructor
			F	W	S				
VOCATIONAL-TECHNICAL INSTITUTE (VTI) (Continued)									
Beginning Crown and Bridgework	201Y-2 to 9		2			1:00-5:50 2:00-5:50 1:00-4:50 8:00-12:50 8:00-11:50	M Tu Th W F M TuWThF	Dental Lab Dental Lab Dental Lab Dental Lab Dental Lab	Mr. Joy Mr. Joy Mr. Joy Mr. Joy Mr. Joy
Advanced Crown and Bridgework	202Y-2 to 9			1		1:00-5:50 2:00-5:50 1:00-4:50 8:00-12:50 8:00-11:50	M Tu Th W F M TuWThF	Dental Lab Dental Lab Dental Lab Dental Lab Dental Lab	Mr. Joy Mr. Joy Mr. Joy Mr. Joy Mr. Joy
Ceramics, Precision Attachments	203Y-2 to 9			2	1	1:00-5:50 2:00-5:50 1:00-4:50	M Tu Th W F	Dental Lab Dental Lab Dental Lab	Mr. Joy Mr. Joy Mr. Joy



WORK SHEET

This page is provided for the student who wishes to prepare a tentative listing of courses he plans to take during the 1961-62 school year. He may take this tentative program with him at the time he is to see his adviser.

FALL QUARTER

WINTER QUARTER

WORK SHEET (*Continued*)

SPRING QUARTER



Southern Illinois University Foundation

The Southern Illinois University Foundation is a nonprofit corporation chartered by the state and authorized by the Board of Trustees to receive gifts for the benefit of the University, to buy and sell property, and otherwise to serve the University.

It respectfully asks alumni and other citizens of Southern Illinois to consider making gifts and bequests to benefit the University. Such gifts should be conveyed to the Foundation, with proper stipulation as to their uses. The Foundation, through its officers and members, will be glad to confer with intending donors regarding suitable clauses to insert in wills and suitable forms of gifts and memorials, including bequests by means of life insurance. Large or small gifts to the library will be appreciated; likewise, gifts for special equipment, buildings, endowment of professorships in particular subjects, gifts to student loan funds and scholarship funds, gifts for the use of foreign students, and endowments for particular sorts of research. Any gifts or bequests can be given suitable memorial names.

The present officers of the Foundation are

Mr. John Lester Buford, *President*, Mt. Vernon, Illinois.

Mr. Charles Mayfield, *Vice-President*, Harvey, Illinois.

Mr. Kenneth R. Miller, *Executive Director*, Carbondale, Illinois.

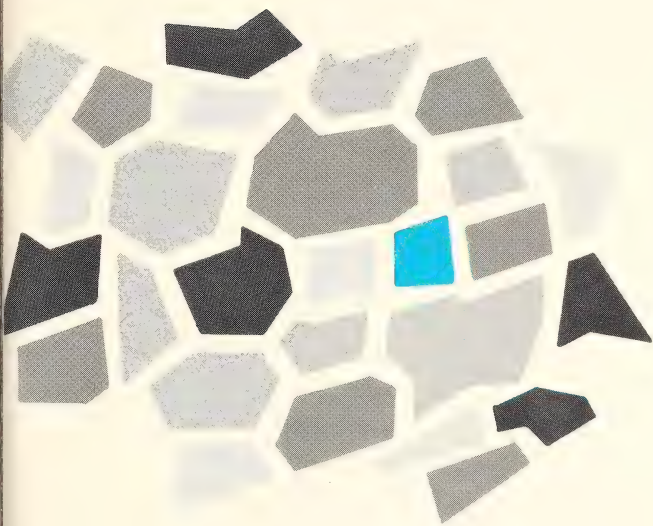
Mr. Robert L. Gallegly, *Treasurer*, Carbondale, Illinois.

Mrs. Lois H. Nelson, *Secretary*, Carbondale, Illinois.



Southern Illinois University

Bulletin



School of Business

CARBONDALE CAMPUS 1961-63

Objectives of Southern Illinois University

TO EXALT BEAUTY

IN GOD,
IN NATURE,
AND IN ART;
TEACHING HOW TO LOVE THE BEST
BUT TO KEEP THE HUMAN TOUCH;

TO ADVANCE LEARNING

IN ALL LINES OF TRUTH
WHEREVER THEY MAY LEAD,
SHOWING HOW TO THINK
RATHER THAN WHAT TO THINK,
ASSISTING THE POWERS
OF THE MIND
IN THEIR SELF-DEVELOPMENT;

TO FORWARD IDEAS AND IDEALS

IN OUR DEMOCRACY,
INSPIRING RESPECT FOR OTHERS
AS FOR OURSELVES,
EVER PROMOTING FREEDOM
WITH RESPONSIBILITY.

TO BECOME A CENTER OF ORDER AND LIGHT

THAT KNOWLEDGE MAY LEAD
TO UNDERSTANDING
AND UNDERSTANDING
TO WISDOM.

School of Business

Announcements for 1961-1963



SOUTHERN ILLINOIS UNIVERSITY BULLETIN
Volume 3 Number 4 June, 1961
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The following issues of the *Southern Illinois University Bulletin*
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General Information
Summer Session
Schedule of Classes
Graduate School
College of Education
College of Liberal Arts and Sciences
School of Agriculture
School of Applied Science
School of Business
School of Communications
School of Fine Arts
School of Home Economics
University Institutes
Division of Technical and Adult Education

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Assistant Dean Vernon G. Morrison, Ph.D. (Nebraska)	1947
Chief Academic Adviser Mary Noel Barron, M.B.A. (Michigan)	1948

Registrar and Director of Admissions Robert A. McGrath, Ph.D. (Iowa)	1949
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This Bulletin. . .

covers in detail questions concerning the School of Business. It does not cover all questions concerning Southern Illinois University. For complete information about the University the prospective student should refer to the General Information bulletin.

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University Calendar, 1961-1962

SUMMER SESSION*

Session Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Final Examinations	Wednesday–Thursday, August 9–10
Commencement	Friday, August 11

SUMMER QUARTER*

Quarter Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Quarter Ends	Friday, September 1

FALL QUARTER

New Student Week	Sunday–Tuesday, September 17–19
Quarter Begins	Wednesday, September 20
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 22–27
Final Examinations	Monday–Saturday, December 11–16

WINTER QUARTER

Quarter Begins	Tuesday, January 2
Final Examinations	Monday–Saturday, March 12–17

SPRING QUARTER

Quarter Begins	Monday, March 26
Memorial Day Holiday	Wednesday, May 30
Final Examinations	Wednesday–Tuesday, June 6–12
Commencement	Wednesday, June 13

Summer classes will begin on Tuesday, June 20. During the fall, winter, and spring quarters, day classes will begin on the second day of the quarter. Evening classes (5:45 P.M. or later) will begin on the first day of the quarter.

* Provision has been made for either an eight-week summer session or a regular summer quarter. The one to be followed will not be known until after the Illinois General Assembly acts on the University's budget during the 1961 legislative session.

University Calendar, 1962-1963

SUMMER SESSION*

Session Begins	Monday, June 18
Independence Day Holiday	Wednesday, July 4
Final Examinations	Wednesday–Thursday, August 8–9
Commencement	Friday, August 10

SUMMER QUARTER*

Quarter Begins	Monday, June 18
Independence Day Holiday	Wednesday, July 4
Quarter Ends	Friday, August 31

FALL QUARTER

New Student Week	Friday–Sunday, September 21–23
Quarter Begins	Monday, September 24
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 21–26
Final Examinations	Wednesday–Tuesday, December 12–18

WINTER QUARTER

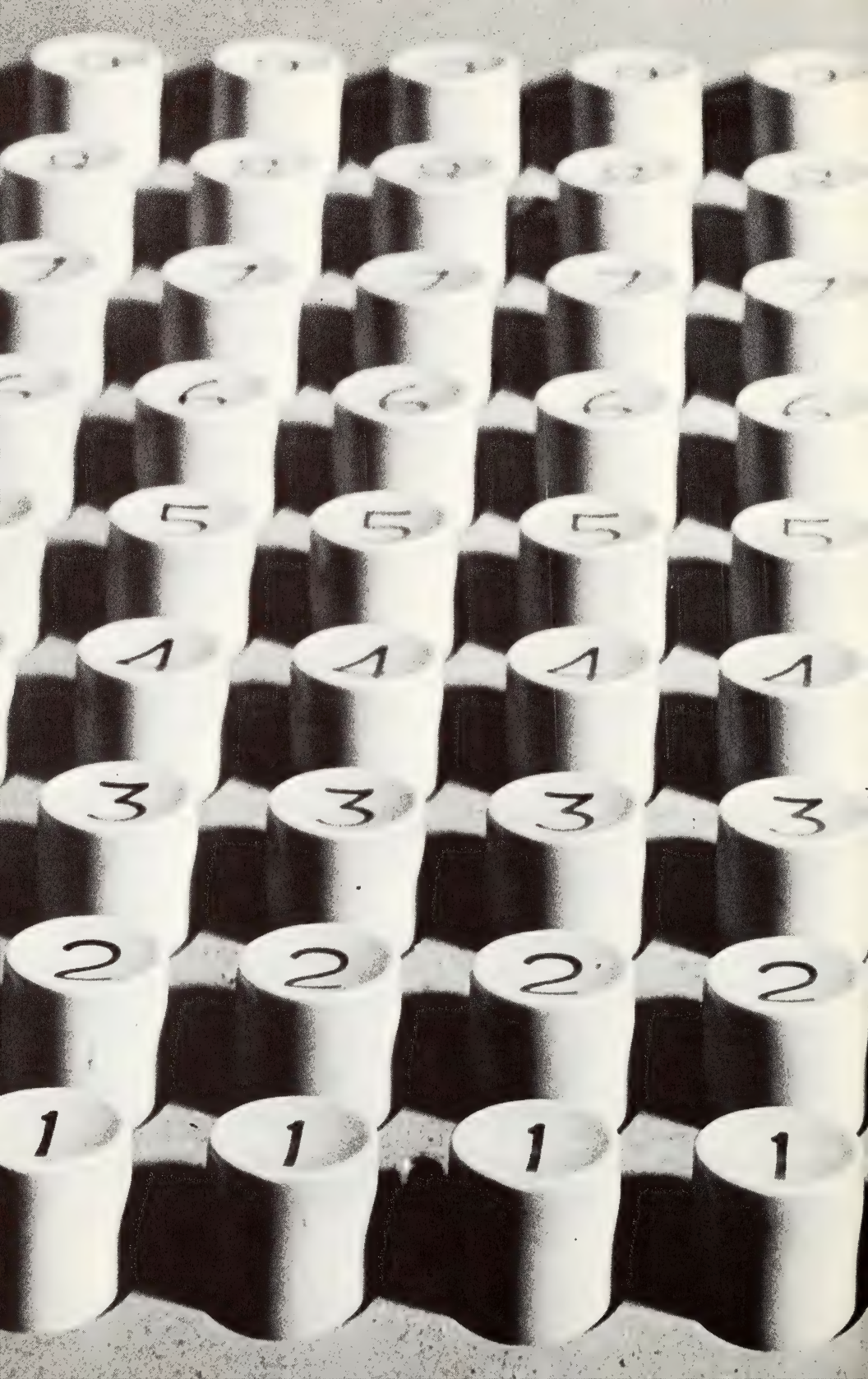
Quarter Begins	Wednesday, January 2
Final Examinations	Wednesday–Tuesday, March 13–19

SPRING QUARTER

Quarter Begins	Wednesday, March 27
Memorial Day Holiday	Thursday, May 30
Final Examinations	Thursday–Wednesday, June 6–12
Commencement	Thursday, June 13

Summer classes will begin on Tuesday, June 19. During the fall, winter, and spring quarters, day classes will begin on the second day of the quarter. Evening classes (5:45 P.M. or later) will begin on the first day of the quarter.

* Provision has been made for either an eight-week summer session or a regular summer quarter. The one to be followed will not be known until after the Illinois General Assembly acts on the University's budget during the 1961 legislative session.



The University

SOUTHERN ILLINOIS UNIVERSITY was established in 1869 as Southern Illinois Normal University. The shortened name became official in 1947 by action of the state legislature.

For some years after its establishment, Southern operated as a two-year normal school. In 1907 it became a four-year, degree-granting institution, though continuing its two-year course until 1936. In 1943 the state legislature changed the institution, which had been in theory exclusively a teacher-training school, into a university, thereby taking official recognition of the great demand in the area for diversified training.

The Graduate School, approved in 1943, at first granted only the Master of Science in Education degree. In 1948 it was authorized to grant also the Master of Arts and Master of Science degrees. In 1952 the Master of Fine Arts degree was added to this list, and in 1955 the Doctor of Philosophy degree was added. The Master of Music and the Master of Music Education degrees were authorized in 1956.

In 1949 the Belleville Residence Center was established and the Alton and East St. Louis residence centers in 1957. In 1958 the Southwestern Illinois Residence Office was created to co-ordinate and direct the University's educational activities in the Madison-St. Clair counties area. In 1959 its name was changed to the Southwestern Illinois Campus.

LOCATION

The general administrative offices for the University's campuses at Carbondale, Southern Acres, and Little Grass Lake are located at Carbondale. The Southwestern Illinois Campus, which is the administrative office for the Alton and East St. Louis campuses, is located at Edwardsville.

The facilities at Carbondale now include more than twenty-five hundred acres of land, thirty-six permanent buildings, and numerous temporary buildings. These buildings house classrooms, auditoriums, laboratories, libraries, offices, living quarters, cafeterias, and farm equipment and animals. The Little Grassy Lake and Southern Acres campuses are each about ten miles from Carbondale.

The facilities of the former Shurtleff College have been leased by the University for the operation of the Alton campus. The East St. Louis campus is located at the former East St. Louis High School building.

SESSIONS

The academic year is divided into three quarters. Each quarter is approximately twelve weeks in length.

The fall quarter opens near the middle of September and closes just prior to the Christmas vacation period. The winter quarter begins early in January and ends about the middle of March. The spring quarter begins the latter part of March and ends about the second week in June. Definite dates for each quarter may be found in the University Calendar.

In addition to the three quarters, there is an eight-week summer session which begins immediately following the close of the spring quarter. The summer session consists of a comprehensive program of courses offered by the departments of the University. In addition to the courses which run the full eight weeks, there are workshops and short courses covering shorter periods of time.

REGULATIONS

The University and its various instructional units reserve the right to change the rules regulating admission, instruction, and graduation; to change courses and fees; and to change any other regulation affecting the student body. Such regulations shall go into force whenever the proper authorities so determine, and shall apply both to prospective students and to those who have enrolled in the University.

Each student must assume responsibility for his progress by keeping an up-to-date record of the courses he has taken and by checking periodically with his adviser and the Registrar's Office. Responsibility for errors in program or in interpretation of regulations of the University rests entirely upon the student. Advice is always available on request.

School of Business

A COMMERCIAL program was offered as early as 1906. Economics was a part of the political science department in 1930 and a part of the commercial department in 1931. Finally in 1932, a commercial department and an economics department were established.

In 1945 these two departments plus nine others were grouped into a College of Vocations and Professions. Ten years later, the Business, Economics, and Industrial Education departments became the School of Business and Industry.

The School of Business was organized in 1957. It now includes the departments of Accounting, Economics, Management, Marketing, and Secretarial and Business Education.

OBJECTIVES

The academic program of the School of Business is designed to provide the student with the environment, the help, and the stimulation to acquire both an education for business and an education for life. Its objective is to prepare students so that they may become qualified ultimately for professional and administrative positions of responsibility in business, labor, government, and other areas and that they may have an appreciation of the moral and ethical responsibilities attendant to such positions.

FACILITIES

In addition to the usual classroom facilities, the school has well-equipped statistical, office machines, and typewriting laboratories and classrooms.

PROGRAMS OF INSTRUCTION

The Bachelor of Science degree may be earned in the School of Business in the following majors: accounting, economics, management, marketing, and secretarial studies. The Bachelor of Arts degree with a major in economics may be earned in the College of Liberal Arts and Sciences. The Bachelor of Science in Education degree with a major in business teacher education or in economics may be earned in the College of Education.

In addition to the above programs, the School of Business co-operates with the Small Business Institute and the Transportation Institute.

The primary objective of the Small Business Institute, which is administratively independent of the School of Business, is to develop executives for small businesses. The program, leading to a Bachelor of Science degree with a major in small business management, is tailored to fit the needs of each student with courses drawn from many departments.

The Transportation Institute, also administratively independent of the School of Business, offers a Master of Science degree program. The School of Business is enlarging its offerings in transportation to meet the needs of the institute.

Further information relative to the Small Business Institute and the Transportation Institute appears in the University Institutes bulletin.

GRADUATE WORK

The School of Business offers through the Graduate School the Doctor of Philosophy, the Master of Arts, the Master of Science, and the Master of Science in Education degrees. Any of these degrees may be earned in the Department of Economics. The departments of Accounting, Management, and Marketing each offer the Master of Science degree. The Department of Secretarial and Business Education offers the Master of Science in Education degree.

Students should consult the Graduate School bulletin for more information.

STUDENT ORGANIZATIONS

There are four clubs for business students. Each has professional and

social objectives. They provide a variety of educational experiences, including lectures by campus and off-campus speakers who supplement what is learned in the classroom. Students may find employment opportunities through contacts made in club activities.

All students who have had two courses in accounting on the university level and have an over-all average of "C" or better are invited to join the Accounting Club, while the Marketing Club is open to all students interested in marketing. The Marketing Club is affiliated with the National American Marketing Association. Management students are eligible for membership in the Society for the Advancement of Management. Phi Beta Lambda, an affiliate of the National Future Business Leaders of America, is for students in secretarial studies and business teacher education.

In addition to the above clubs there are professional and honorary fraternities in the School of Business.

Alpha Kappa Psi, a national professional business fraternity, is interested in all male students who plan to follow business as a profession. Pi Omega Pi is a national honorary fraternity for undergraduates in business teacher education. Its aims are to foster interest in business and in teaching as a profession, to encourage and recognize high scholarship, and to emphasize service. Business teacher education students who have at least a "B" average in business and education courses are eligible for membership.

COMPLETE DETAILS concerning admission, tuition, fees, housing, financial assistance, and student employment are given in the General Information bulletin. For a free copy write to General Publications, Southern Illinois University, Carbondale, Illinois.

ADMISSION TO THE SCHOOL

The School of Business recommends that students include in their high school program four units of English, two of mathematics, two of science, and two of social studies.

Inquiries concerning admission to the School of Business should be addressed to the University's Admissions Office. Application for admission should be initiated at least thirty days in advance of the desired entrance date. High school seniors should start the admission process during the

first semester of their senior year, but their formal admission will not be considered until after receipt of the high school record showing completion of the seventh semester of high school work.

TUITION AND FEES

At the present time legal residents of Illinois registered for more than eight hours pay a total of \$61.50 per quarter. This includes \$42.00 tuition, a \$5.00 book rental fee, a \$5.00 student union building fund fee, and a \$9.50 student activity fee. Out-of-state students pay an additional \$50.00 tuition, or a total of \$111.50. Students registered for eight hours or fewer pay one-half tuition, one-half book rental fee, and full student union building fund fee; they have the option of paying the student activity fee.

ADVISEMENT

To insure that an undergraduate student is properly advised concerning the course of study which will fulfill the general university requirements and prepare him for his chosen career, academic advisement has been made the special responsibility of a selected group from the teaching faculty. The School of Business has a chief academic adviser and a number of assistant advisers.

REQUIREMENTS FOR THE BACHELOR'S DEGREE

Each candidate for the degree must complete a minimum of 192 hours of credit in approved courses. At least 64 must be in senior college courses, of which 48 must be earned at Southern, 16 of which may be earned in extension from Southern. Each student must have a "C" average, and grades not lower than "C" in subjects aggregating at least three-fourths of the work. A "C" average is required in the major subject. These averages are required for the credit made at Southern as well as for the total record.

The *quarter hour* is the unit of credit used at Southern and throughout this bulletin. One quarter hour is two-thirds of a semester hour.

Except for Bachelor of Music Education and Bachelor of Music degree students, the following requirements should be met by all bachelor's degree candidates of the University within the first two years of attendance.

REQUIREMENTS	HOURS	COURSES
Social Studies	20	Economics 205, Geography 100, 300, Government 101, History 101, 102, 103, 201, 202, Sociology 101 (work in four of the five departments)
Humanities	18	
English	(9)	English 101, 102, 103
English	(6)	English 205, 206, 209, 211, 212
Art or Music	(3)	Art 120, Music 100
Biological Sciences	9	
Health Education	(4)	Health Education 100
Botany or Zoology	(5)	Botany 101, 102, 202, Zoology 100
Mathematics and Physical Sciences	12	Chemistry, physics, and mathematics (work in two of the three departments)
Practical Arts and Crafts	3	Agriculture, business administration, home economics, industrial education (automatically satisfied by students in the School of Business)
Physical Education	6	Activity courses
Air Science (Men only)	3	Air Science 110, 210, 220, six quarters of leadership laboratory, and three elective courses must be satisfactorily completed before this requirement is fulfilled.
TOTAL	71	

SCHOOL OF BUSINESS REQUIREMENTS

The electives should be chosen so that the student has at least 77 hours in the School of Business and at least 77 hours outside of the school.

Each student must pass an English qualifying examination. This examination, given several times each year, should be taken by the student in his sophomore year.

The following courses are required by the School of Business: Accounting 251, 252, 253, Economics 205, 206, 307, Geography 211, History 202, Management 320, 371, and Marketing 230. These courses represent 49 hours of credit, but because 18 of these hours count toward general degree requirements in practical arts and crafts and in social studies, the curricula suggested by the various departments list only 31 hours for School of Business requirements.

Instructional Units

ACCOUNTING

Professor Edward J. Schmidlein, Jr., Ph.D. (New York)	1959
Professor Ralph Dale Swick, D.B.A. (Indiana), Chairman	1955
Associate Professor Clifford R. Burger, M.S. (Indiana State)	1958
Associate Professor J. William Cundiff, J.D. (Northwestern)	1958
Associate Professor Leo M. Favrot, M.B.A. (Harvard)	1960
Associate Professor Susie E. Ogden, A.M. (Illinois)	1931
Associate Professor Roy W. Richards, M.B.A. (Indiana)	1960
Assistant Professor Mary Noel Barron, M.B.A. (Michigan)	1948
Assistant Professor Robert L. Gallegly, A.M. (Illinois)	1946
Instructor Jerome J. Rooke, M.S. (Northern Illinois)	1957
<hr/>	
Visiting Professor E. I. Fjeld, Ph.D. (Columbia)	1961-62

Accounting is the means by which the many transactions of business are analyzed, recorded, and interpreted. The ability to analyze and interpret is not easily acquired. It is one that takes thorough and serious study.

The accounting program is designed to develop that ability which leads to professional positions in cost accounting, auditing, income tax, financial statement analysis, and general financial accounting. The operation of a business and its financial position are of interest to its owners, to its employees, to its creditors, to the government, and to the public in general.

The accounting curriculum is designed to cover four general areas of study: theory, cost, tax, and auditing. In addition to the four main groups, special courses are offered in governmental accounting, accounting systems, and C.P.A. problems. Although individuals trained in accounting might work in private industrial firms, public accounting firms, governmental agencies, or in college teaching, the four basic areas in accounting are

needed as background for any of those types of work. Those individuals desiring to practice public accounting in Illinois should familiarize themselves with the Illinois law and regulations covering a C.P.A. certificate. The regulations are published by the Committee on Accountancy, University of Illinois, Urbana, Illinois.

SUGGESTED CURRICULUM IN ACCOUNTING

This curriculum leads to a Bachelor of Science degree.

<i>General Degree Requirements</i> (See page 6.)	71
<i>School of Business Requirements</i> (See page 7.)	31
<i>Requirements in the Major Department</i>	32-33
Accounting 331, 341, 351, 352, 353, 356, 442	29
Accounting 355 or 432 or 458 or 459 or 461	3-4
<i>Related Requirements for the Major</i>	26-28
Speech 101	4
Economics 315, 317 or 470	7-8
Management 170, 271 or 361, 340 or 380, 372 or 373	15-16
<i>Electives</i>	29-32
<i>Total</i>	192

The following courses constitute a minor in accounting: 251, 252, 253, 8 hours of accounting courses numbered 300 or above, Management 170.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students. Those on the 500 level are for graduate students only.

- 250-4. ACCOUNTING FUNDAMENTALS. A study of accounting principles covering the more prevalent types of business organizations. Usefulness of accounting reports and data rather than technical practice is stressed. Not open to majors in the School of Business.
- 251-4, 252-4, 253-4. ACCOUNTING I, II, III. The fundamentals of accounting as applied to sole proprietorships, partnerships, and corporations. The purpose of accounting as an orderly method of providing useful information to management, investors, and others is emphasized. Courses to be taken in sequence. Prerequisite: sophomore standing.
- 309-2. INDIVIDUAL INCOME TAX. Preparation of income tax returns. Federal income tax law as applied to individuals. Not open to accounting majors.
- 331-5. TAX ACCOUNTING. Study of accounting principles and procedures for

- meeting requirements of current laws and regulations which relate to federal income tax. Laboratory problems and preparation of tax returns with special emphasis on the individual taxpayer. Prerequisite: 253.
- 341-3. **COST ACCOUNTING.** Cost determination and control of manufacturing activities. Interpretation and managerial implications of material, labor, and overhead for job order and process types of cost systems. Cost reports to executives. Prerequisite: 253.
- 351-4, 352-4, 353-4. **ADVANCED ACCOUNTING I, II, III.** Accounting principles and procedures for the preparation of adequate financial statements. Special attention given corporate equity, inventories, depreciation, investments, partnership equity, consignments, installment sales, insurance, branch accounts, and compound interest in relation to accounting practice. Analysis and interpretation of statements; preparation and use of special statements; application of funds, consolidated statements. Courses to be taken in sequence. Prerequisite: 253.
- 355-3. **GOVERNMENTAL ACCOUNTING.** Study of the unique characteristics of fund accounting as found in local, state, and federal government units and certain private institutions. Prerequisite: 253.
- 356-5. **AUDITING.** Objectives, standards, and procedures for auditors in examining and reporting on financial statements, internal control, and accounting practices of business firms and non-profit organizations and agencies. Prerequisites: 341, 352.
- 410-4. **SURVEY OF ACCOUNTING.** Purpose is to permit non-accounting majors and teachers to study advanced accounting from the standpoint of its usefulness in controlling and administering an enterprise. Critical analysis of reports, statements, and other accounting data but with little attention given to accounting techniques used in collecting and reporting such information. Prerequisite: 250 or 253 or equivalent. Not open to accounting majors.
- 432-4. **PROBLEMS IN FEDERAL TAXATION.** Study of income tax problems which arise from partnership, corporation, estate, and trust types of organization. Brief study of social security, federal estate, and gift taxes. Student does research in source materials in arriving at solutions of complicated tax problems. Prerequisite: 331.
- 442-4. **ADVANCED COST ACCOUNTING.** Cost accounting for co-products, joint products, and by-products. Managerial control and profit planning through flexible budgets, standard costs, direct costing, break-even and profit-to-volume charts, and differential and comparative cost analyses. Distribution costs. Prerequisite: 341.
- 458-4. **ACCOUNTING SYSTEMS.** Problems in accounting systems design and installation. Examination of existing systems and practice in system design and reports. Prerequisites: 341, 352.
- 459-4. **INTERNSHIP IN ACCOUNTING.** Supervised work experience in professional accounting. Prerequisite: outstanding record in accounting and recommendation of the committee on internship.
- 461-4. **C.P.A. AND ADVANCED ACCOUNTING PROBLEMS.** A problems course, using problems from the examinations sponsored by the American Institute of Certified Public Accountants and given in the last few years. Some problems also drawn from other sources. Prerequisites: 341, 352.

Courses on the 500 level are for graduate students only.

- 500-2 to 5. READINGS IN ACCOUNTING. Directed readings on selected topics in the accounting field.
- 501-2 to 5. INDIVIDUAL RESEARCH IN ACCOUNTING. Directed research in selected areas of accounting.
- 550-4. ACCOUNTING THEORY. Contemporary advanced accounting theory including controversial issues with emphasis on net income determination and asset valuation. Particular attention given to current publications of the profession and governmental agencies. Prerequisite: 352 or 410 or equivalent.
- 557-4. ADVANCED AUDITING. Advanced auditing procedures applicable to medium and large scale businesses. Not only is careful attention given to auditing standards as outlined by the American Institute of Certified Public Accountants, but rulings of governmental agencies, such as the Securities and Exchange Commission, affecting auditing procedures are analyzed. Prerequisite: 356 or consent of instructor.
- 562-4. C.P.A. AND ADVANCED ACCOUNTING PROBLEMS. A problems course including some highly technical C.P.A. examination problems not studied in undergraduate courses. Prerequisite: 461 or consent of instructor.
- 565-4. CONTROLLERSHIP. A study of the function of controllership in a business organization. Includes an analysis of the duties and responsibilities of a controller, in his capacity as the chief accounting executive of a firm. Attention is given to the contribution of a controller to effective planning, co-ordination, and control through accounting. Prerequisites: 341 and 352 or consent of instructor.
- 599-2 to 9. THESIS.

ECONOMICS

Professor Clark Lee Allen, Ph.D. (Duke)	1958
Professor George H. Hand, Ph.D. (Princeton)	1952
Vandever Professor C. Addison Hickman, Ph.D. (Iowa)	1960
Professor Robert George Layer, Ph.D. (Harvard), Chairman	1955
Professor Lewis A. Maverick, Ph.D. (Harvard), Ed.D. (California) Emeritus 1959	1946
Professor Edward V. Miles, Jr., A.M. (St. Louis)	1919
Professor Guenther Carl Wiegand, Ph.D. (Northwestern)	1956
Associate Professor John Arthur Cochran, Ph.D. (Harvard)	1957
Associate Professor Milton T. Edelman, Ph.D. (Illinois)	1950
Associate Professor Bernard J. Marks, Ph.D. (Minnesota)	1961
Associate Professor Thomas A. Martinsek, Ph.D. (Ohio State)	1959
Assistant Professor Robert L. Decker, B.S. (Colorado)	1961

Assistant Professor Paul Isbell, M.S. (Illinois)	1952
Assistant Professor Vernon G. Morrison, Ph.D. (Nebraska)	1947
Assistant Professor Donald A. Wells, Ph.D. (Oregon)	1960
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Lecturer Eugene Maxwell Malone, B.A. (Southern Illinois)	1960-61
Lecturer Catherine W. Martinsek, M.A. (California)	1960-61
Lecturer Harry C. Thornberry, M.S. (Southern Illinois)	1959-61
Lecturer Thomas M. Stevenson, Jr., M.A. (Southern Illinois)	1960-61

The aim of the economics courses is to develop in the student such critical and analytical skills as underlie the ability to understand economic problems and institutions, both in their contemporary and historical setting.

Students who major in economics may specialize in any one of six areas: general economics, banking*, public finance, labor, foreign trade, or economic theory. These specialties furnish the academic background necessary for many positions in industry, for work in the economic branches of government service, for college or university teaching, and for graduate study in economics and business.

A student may elect economics as his major or minor subject for the following degrees:

1. Bachelor of Science for students in the School of Business.
2. Bachelor of Arts for students in the College of Liberal Arts and Sciences.
3. Bachelor of Science in Education for students in the College of Education.

SUGGESTED CURRICULA IN THE SCHOOL OF BUSINESS

<i>General Degree Requirements</i> (See page 6.)	71
<i>School of Business Requirements</i> (See page 7.)	31
<i>Economics Courses Required for the Major</i>	29-42
Economics 315, 317, 330, 470	15
One of the following specializations	14-27
GENERAL ECONOMICS: 310, 328, 418, 440, 450, 451, 481	24
BANKING: 310, 416, 432, 451	14

(Continued on next page)

* Not included in the list of specializations in economics for students in the College of Liberal Arts and Sciences.

<i>Economics Courses Required for the Major</i>	Continued
PUBLIC FINANCE: 310, 331, 340, 416, 418, 432	21
LABOR: 310, 328, 411, 432, 436	18
FOREIGN TRADE: 310, 328, 416, 418, 429, 460, 481	27
ECONOMIC THEORY: 308, 328, 416, 429, 440, 450, 451	25
<i>Related Requirements for the Major</i>	23
Government 231, History 103, Management 340, 473, Mathematics 111, and 2 hours of philosophy	
<i>Additional Courses Depending Upon Specialization</i>	4-12
GENERAL ECONOMICS: Management 380	4
BANKING: Management 380, Marketing 334	8
PUBLIC FINANCE: Government 360, 495	9
LABOR: Management 380, Psychology 201, 322	12
FOREIGN TRADE: Government 370	4
ECONOMIC THEORY: Management 380	4
<i>Electives</i>	21-30
The number of hours depends upon the specialization: 24 hours for general economics, 30 for banking, 22 for public finance, 22 for labor, 21 for foreign trade, and 23 for economic theory.	
<i>Total</i>	192

Required courses constituting a minor in economics: Economics 205, 206, 307, 315, 317, 310 or 328 or 330, Accounting 250 or (251, 252, and 253).

SUGGESTED CURRICULA IN THE COLLEGE OF LIBERAL ARTS AND SCIENCES

Required courses constituting a major in economics with a specialization in *general economics*: Economics 205, 206, 307, 310, 315, 317, 328, 330, 418, 440, 450, 470, 481; Accounting 250; Mathematics 106c and 111.

Required courses constituting a major in economics with a specialization in *foreign trade*: Economics 205, 206, 307, 310, 315, 317, 328, 416, 418, 429, 460, 470, 481; Accounting 250; Government 370 and 475; Mathematics 106c and 111.

Required courses constituting a major in economics with a specialization in *labor*: Economics 205, 206, 307, 310, 315, 317, 330, 411, 436, 470; Psychology 201, 322; Sociology 101, 338; Accounting 250; Mathematics 106c and 111.

Required courses constituting a major in economics with a specializa-

tion in *public finance*: Economics 205, 206, 307, 310, 315, 317, 328, 330, 331, 340, 416, 432, 440, 451, 470; Accounting 250; Government 360; Mathematics 106c and 111.

Required courses constituting a major in economics with a specialization in *economic theory*: Economics 205, 206, 307, 315, 317, 328, 330, 416, 429, 440, 450, 451, 465, 470; Accounting 250; Mathematics 106c and 111.

It is recommended that electives be selected from the social sciences and mathematics.

Required courses constituting a minor in economics: Economics 205, 206, 307, 315, 317, 310 or 328 or 330, Accounting 250.

SUGGESTED CURRICULA IN THE COLLEGE OF EDUCATION

Required courses constituting a 48-hour major in economics: Economics 205, 206, 307, 310, 315, 317, (328 or 330), 418, (440, 450, 451, or 470), (460 or 481); Accounting 250; Marketing 230.

Required courses constituting a 36-hour major in economics: Economics 205, 206, 307, 315, 317, (310, 328, or 330), 418, (460, 470, or 481).

Required courses constituting a minor in economics: Economics 205, 206, 307, 315, 317, and (310, 328, or 330); Accounting 250.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students. Those on the 500 level are for graduate students only.

205-5. SURVEY OF ECONOMIC PRINCIPLES.

206-4. ECONOMIC PRINCIPLES AND PROBLEMS. Prerequisite: 205.

301-1 to 6. ECONOMIC READINGS. Reading in books and periodicals in a defined field, under direction of one or more staff members. Periodic written and oral reports. Prerequisite: approval of chairman.

307-4. ECONOMIC AND BUSINESS STATISTICS I. 3 hours lecture; 2 hours laboratory. Prerequisite: 205; recommended, Mathematics 106c.

308-4. ECONOMIC AND BUSINESS STATISTICS II. 3 hours lecture; 2 hours laboratory. Prerequisite: 307 or consent of instructor.

310-4. LABOR PROBLEMS. Prerequisites: 205 and 206.

315-4. MONEY AND BANKING I. Prerequisites: 205 and 206.

317-4. ECONOMIC HISTORY OF THE UNITED STATES. Prerequisite: 205.

328-4. INTERNATIONAL ECONOMICS I. Prerequisites: 205 and 206.

330-4. PUBLIC FINANCE I: NATIONAL. Prerequisites: 205 and 206.

331-3. PUBLIC FINANCE II: STATE AND LOCAL. Prerequisite: 330 or consent of instructor.

- 340-3. PUBLIC UTILITY ECONOMICS. Prerequisites: 205 and 206.
- 355-3. ECONOMICS OF CONSUMPTION. Prerequisite: 205 or consent of instructor.
- 360-3. REGIONAL ECONOMY. Natural economic regions, governmental action (as in the T.V.A.), local applications.
- 380-4. ECONOMICS OF WAR. Mobilization, resource allocation, manpower, wage and price problems. Government economic policy. Post-war problems. Prerequisite: 205.
- 411-4. COLLECTIVE BARGAINING AND DISPUTE SETTLEMENT. Nature, issues, procedures, economic effects. Analysis of actual collective bargaining situations. Prerequisite: 310 or consent of instructor.
- 416-4. MONEY AND BANKING II. Emphasis upon the Federal Reserve and other banking systems. Prerequisite: 315 or consent of instructor.
- 418-4. ECONOMIC HISTORY OF EUROPE. A survey of the economic growth of Europe with emphasis upon the development of European agriculture, industry, finance, and international trade since 1750. Prerequisites: 205 and 206 or consent of instructor.
- 419-4. LATIN AMERICAN ECONOMIC DEVELOPMENT. A survey of the resource base of Latin American economic development with special reference to the problems of transition from an export-import to an integrated industrial economy; monetary policies; problems of economic planning. Prerequisites: 205, 315.
- 429-4. INTERNATIONAL ECONOMICS II. Intensive treatment of the principles of international economics with special emphasis on the classical and modern theories of international trade. Income effects. Balance of payments adjustments. Prerequisite: 328 or consent of instructor.
- 432-3. FISCAL POLICY OF THE UNITED STATES. Countercyclical, secular, and emergency use of government expenditures, debt, taxes. Prerequisites: 205 and 206 or consent of instructor.
- 436-3. GOVERNMENT AND LABOR. (Same as Government 436.) A study of labor relations and legislation considering both constitutional and economic aspects. Prerequisites: 205 and Government 101 or 231 or 300 or consent of instructor.
- 437-4. ECONOMICS OF SOCIAL SECURITY. The federal and state social security programs, including Social Security Act, Workmen's Compensation, Unemployment Compensation, Disability Insurance, with emphasis on their economic aspects. Prerequisites: 205 and 206 or consent of instructor.
- 440-3. INTERMEDIATE THEORY. A more intensive treatment of price theory. Prerequisite: 205, 206 or consent of instructor.
- 445-2 to 8. SOUTH AMERICAN STUDY TOUR. (Sponsored by Latin American Institute, in co-operation with departments of Anthropology, Economics, Foreign Languages, Geography, Government, History, and the University Museum.) Fifty to fifty-five days of travel and study in South America, with twenty to twenty-five lectures and seminars (in English) by experts from colleges and universities in at least five countries. A project paper will be required. Students seeking credit under more than one department must arrange their papers and credits with each department.

- 450-3. HISTORY OF ECONOMIC THOUGHT. Great economists and the development of economic theory. Prerequisites: 205 and 206 or consent of instructor.
- 451-3. ECONOMIC THEORIES. A study of the theories of recent leading economists. Prerequisite: 450 or consent of instructor.
- 460-4. RUSSIAN ECONOMY. A study of the development of Russian trade, agriculture, industry, government, finance, and standards-of-living in successive periods in relation to the historical, geographic, economic, and ideological background. Prerequisite: 205 or consent of instructor.
- 465-4. MATHEMATICAL ECONOMICS. A systematic survey of mathematical economic theory. The principal topics are conditions of static equilibrium, including stability conditions, dynamic models using difference equations, and linear production models of input-output analysis and activity analysis (linear programming). Prerequisites: 440 and consent of instructor.
- 470-3. BUSINESS CYCLES. Major business fluctuations in the United States—prices, employment, production, credit, inflation and deflation, and government action during the cycles. Prerequisite: 315 or 440 or consent of instructor.
- 471-4. LAND RESOURCE ECONOMICS (Same as Forestry 471 and Agricultural Industries 471). The use of land as an economic variable in production of goods and services; land markets; group versus individual conflicts; elementary land resource planning techniques. Field trip costs approximately \$5. Prerequisite: 206 and Agricultural Industries 350 or Forestry 470; or Economics 440.
- 481-3. COMPARATIVE ECONOMIC SYSTEMS. Capitalism, socialism, fascism, and other forms of the economy. Prerequisite: 205 or consent of instructor.
- 490-4. WORKSHOP IN ECONOMIC EDUCATION. (Same as Secondary Education 490.) Designed to assist elementary and secondary school teachers in promoting economic understanding in the minds of their students through the translation of economic principles and problems into classroom teaching materials.

Courses on the 500 level are for graduate students only.

- 500-4 to 8. ECONOMICS SEMINAR. A study of a common, general topic in the field of economics, with individual reports and special topics. (This course may be taken twice for a total of 8 hours of credit.) Prerequisite: 205 or consent of instructor.
- 501-1 to 5. ECONOMIC READINGS. Contemporary books and periodicals in economics. Prerequisite: consent of chairman.
- 502-1 to 6. READINGS IN RESOURCE ECONOMICS. (Same as Forestry 520B and Agricultural Industries 520B.) Directed reading in the field of resource economics. Prerequisites: graduate standing and consent of instructor.
- 512-4. LABOR ECONOMICS. A study of economic principles involved in the employment relationship. Such topics as wage theory, the labor market, employment and unemployment, and the economic effects of collective bargaining are covered. Prerequisite: 310 or consent of instructor.

- 519-4. **ECONOMIC GROWTH.** Intensive examination of the problems (past and present) of economic development faced by nations everywhere. Attention to the alternative solutions which have been, or are being, attempted. Prerequisite: 317 or 418 or consent of instructor.
- 533-4. **PUBLIC FINANCE THEORY AND PRACTICE.** Historical development of public finance theories with analyses of their policy implications. Prerequisite: 330 or consent of instructor.
- 541-4. **NATIONAL INCOME THEORY.** Keynesian and post-Keynesian developments in national income theory. Empirical research concerned with characteristics and magnitudes of important national income concepts, such as the consumption function, are examined. Recent American policies and problems bearing on national income fluctuations are considered. Prerequisites: 205 and 206 or consent of instructor.
- 542-4. **PRICE THEORY.** A course designed to develop skills in the use of the analytical tools, including the basic mathematical techniques, used in price theory. Prerequisite: 440 or consent of instructor.
- 561-4. **COMPARATIVE ECONOMIC DEVELOPMENT IN ASIA.** A comparison of the economics of Japan, India, and China within the framework of emerging economic theory of developing economies. Performance, goals, problems of self-sustaining growth, problems of resource allocation, and changes in the institutional framework in each case. Economic role of the U.S. in Asian development. Prerequisite: 205 or consent of instructor.
- 575-4. **ECONOMIC REGULATION.** An analysis of the economic causes and effects of the regulation of agriculture, business, and labor. Prerequisites: 330 and Management 473 or consent of instructor.
- 581-4. **ECONOMICS OF WELFARE.** The application of economic theory to the quest for economic welfare. Includes consideration of income distribution, rates of growth, the pricing system, and the role of government. Prerequisite: 440 or equivalent.
- 582-4. **ECONOMIC BEHAVIOR.** A theoretical and empirical study of the behavioral aspects of economics, including the behavior of firms, households, and government. This course draws upon the recent literature of economics and also, on frontier areas, upon directly relevant concepts and findings of related behavioral sciences. Prerequisite: 440 or equivalent or consent of instructor.
- 599-3 to 9. **THESIS.**

MANAGEMENT

Professor Thomas W. Douglas, Ph.D. (Pennsylvania)	1959
Professor Everette N. Hong, Ph.D. (Southern California), Chairman	1958
Professor Henry J. Rehn, Ph.D. (Chicago)	1945
Professor John W. Scott, Ph.D. (Chicago), Emeritus (1952)	1947
Associate Professor Irving Kovarsky, Ph.D. (Iowa)	1957

Assistant Professor Ralph Bedwell, M.S. (Syracuse)	1954
Assistant Professor Richard J. Dandeneau, M.S. (Wisconsin)	1958
Assistant Professor Frank F. Stamberg, B.S. (Illinois)	1955
Assistant Professor Lawrence R. Winters, L.L.B. (Michigan)	1959
<hr/>	
Visiting Professor Karl E. Lieb, J.D. (Stanford)	1959-61
Lecturer Edward R. Kittrell, M.A. (Virginia)	1959

The Department of Management offers work in three areas: general, financial, and personnel management. Students who do not wish to specialize will select the first area. The latter two areas are more restrictive in their requirements. It is the objective of the department to provide a broad, general, liberal educational experience rather than a narrow professional training.

The work in this department leads to a Bachelor of Science degree.

SUGGESTED CURRICULUM IN MANAGEMENT

General Degree Requirements (See page 6.)	71
School of Business Requirements (See page 7.)	31
Management Courses Required for the Major	38-43
Management 170, 271, 361, 372 or 373, 385	19
One of the management specializations below	19-24
GENERAL: 327, 340, 380, 421, 473, 479-4	24
FINANCIAL: 323, 327, 328, 340 or 380, 421, 475	23
PERSONNEL: 340, 380, 382, 480, 481	19
Related Requirements for the Major	19-28
Economics 310, 315	8
Speech 101	4
Other courses depending upon specialization	7-16
GENERAL: Economics 317 or 470,	
Marketing 334, 341 or 438	11-12
FINANCIAL: Economics 317 or 470,	
Marketing 334 or 341 or 438	7-8
PERSONNEL: Economics 411, Psychology 201,	
322 or 323, 421	16
Electives	19-29
Total	192

Requirements for a minor in management with a specialization in finance include Accounting 250, Management 170, 320, 323, 327, 340.

Requirements for a minor in management with a specialization in

general management include Accounting 250, Management 170, 320, 340, 371, and Marketing 230.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students. Those on the 500 level are for graduate students only.

- 170-4. **INTRODUCTION TO BUSINESS ADMINISTRATION.** A survey of business, intended to give to the student a general knowledge of the modern business world, a better basis for choosing his specialty, and certain information not covered in the various specialized courses offered.
- 271-4. **BUSINESS WRITING.** Principles and practice in writing typical kinds of business correspondence and reports. Prerequisite: English 103.
- 320-5. **CORPORATION FINANCE.** Financial structure in industry, sources of capital, regulation of securities, of stock exchanges, and the Security and Exchange Commission; dividend and other financial policies. Interpreting corporation reports and evaluating securities through the analysis of financial statements. Prerequisites: Accounting 253 or consent of instructor, Economics 205.
- 323-4. **INVESTMENTS.** Survey of the problems and procedures of investment management; types of investment risks; security analysis; investment problems of the individual as well as the corporation. Prerequisite: 320.
- 327-4. **GENERAL INSURANCE.** Underlying principles and functions of insurance in the economic life of the individual and of business. Prerequisite: junior standing or consent of instructor.
- 328-3. **REAL ESTATE.** Purchasing, financing, owning, developing, improving, assessing, maintaining, zoning, subdividing, conveying, managing, operating in a real estate business; the influence of recent court decisions on real estate. Prerequisite: junior standing or consent of instructor.
- 340-4. **BUSINESS ORGANIZATION AND MANAGEMENT.** Business organization, management theory, and practice. Prerequisite: junior standing or consent of the instructor.
- 360-5. **SEMINAR IN SMALL BUSINESS.** Provides final research into the special field of the small business major, helps him to decide upon the precise steps he will take in furthering his objective upon graduation. Open with the approval of the director of the Small Business Institute to senior students in that program.
- 361-3. **BUSINESS REPORT WRITING.** Discussion, illustration, and practical application of report-writing techniques, including study of uses, forms, and structures of different types of reports.
- 364-3 to 14. **SMALL BUSINESS MANAGEMENT INTERNSHIP I.** This course provides on-the-job training in management of a specific small business in the area of the student's aims. All phases of management will be covered. Emphasis will, however, vary with the job and the student's past experience. The student will live in the community and participate in the normal civic functions in order to parallel the true role of a small business man. Conference hours and working hours will be arranged. Students taking this course will not be permitted to carry additional col-

- lege courses during that quarter. Open only to approved majors in the Small Business Institute, during their third or fourth year.
- 365-3 to 14. **SMALL BUSINESS MANAGEMENT INTERNSHIP II.** This is a continuation of 364, primarily for students who have had no previous business experience in the field.
- 371-4. **BUSINESS LAW I.** Introduction to the history and philosophy of law, contract law, and agency law.
- 372-4. **BUSINESS LAW II.** Real property law, personal property law, partnership law, and corporation law. Prerequisite: 371.
- 373-4. **BUSINESS LAW III.** Negotiable instrument law, sales law, suretyship law. Prerequisite: 371.
- 380-4. **PRODUCTION MANAGEMENT.** Plant location, design, and construction; internal organization for operations, production control, stores control, routing of materials, job analysis, and time study; wage systems, subdivision of executive responsibilities and duties; methods of coordination and planning. Prerequisite: Economics 206.
- 382-3. **TIME AND MOTION STUDY.** Principles and methods for simplifying work and establishing sound time-standards for performance.
- 385-4. **PERSONNEL MANAGEMENT.** Relation of the human element to production; the art of securing understanding and co-operation; employee organizations and outside activities; work of the personnel department; wage standards and working conditions. Prerequisite: junior standing or consent of instructor.
- 421-4. **MANAGEMENT OF BUSINESS FINANCE.** The principal problems of managing the financial operations of an enterprise will be examined. Emphasis will be upon analysis and solutions of problems pertaining to policy decisions. The scope will include both short-term working capital and long-term financing. Prerequisite: 320.
- 428-4. **LIFE INSURANCE.** A study of life insurance with particular attention given to policy forms and provisions, reserve and investment problems, company organization, legal aspects, taxation, and personal and business needs. Prerequisite: 327.
- 429-4. **FIRE AND CASUALTY INSURANCE.** An examination of the economic services performed, contracts, benefits, and premiums of fire and casualty insurance. Prerequisite: 327.
- 455-4. **PROGRAMMING FOR DIGITAL COMPUTERS.** Computer organization and characteristics, machine language-coding, flow charts, sub-routines, optimum and symbolic coding, compilers and interpretive systems. Laboratory work will involve the use of an IBM 650 Computer and other Computing Center equipment. Prerequisite: consent of instructor.
- 472-5. **SMALL BUSINESS.** Small business analysis, primarily through case studies of business financing, location organization, merchandising practices, records, government regulation, and taxes. Open only to business majors.
- 473-4. **BUSINESS ENTERPRISE AND PUBLIC POLICY.** A social and legal evaluation of the federal laws designed to stimulate competition, emphasizing the antitrust and fair trade laws. Prerequisite: senior standing.
- 475-4. **BUDGETING AND SYSTEMS.** Budgeting and systems as aids in coordinating and directing business operation. Prerequisites: 320, Accounting 253.
- 479-2 to 8. **PROBLEMS IN BUSINESS AND ECONOMICS.** Application of

- economic theory to practical business problems. Prerequisite: Economics 307 and senior standing.
- 480-4. RECENT LABOR LAW DEVELOPMENTS AND PROBLEMS. A legal and social evaluation of the most recent labor law problems and court decisions, including the Taft-Hartley Act and the 1959 amendments, Fair Employment Practice Laws and the Fair Labor Standards Act. Prerequisite: Business Law or Economics 310 or Government 395 or consent of instructor.
- 481-4. ADMINISTRATIVE MANAGEMENT. An intensive study of the principles of management and their application to the current industrial setting. Lecture and case methods will be used. Prerequisite: 340.
- 483-4. ADVANCED PRODUCTION MANAGEMENT. Internal problems of managerial control of production including recent developments in theory and techniques; case material will be utilized for the development of analytical ability. Prerequisite: 380.
- 485-4. PROBLEMS IN PERSONNEL MANAGEMENT. Analysis of problems in personnel administration arising from current developments in organization and techniques; case problems and special reports. Prerequisite: 385.

Courses on the 500 level are for graduate students only.

- 500-2 to 5. READINGS IN BUSINESS ADMINISTRATION. Directed readings in classical and current writings on selected topics.
- 501-2 to 5. INDIVIDUAL RESEARCH IN BUSINESS ADMINISTRATION. Directed research in selected areas of business administration.
- 527-3 to 5. SEMINAR IN FINANCE. A study of current issues and practices in business finance. Each student will select a problem for intensive exploration and report his findings to the class. Prerequisite: 421 or consent of instructor.
- 540-5. HISTORY AND THEORY OF MANAGEMENT. An analytical study of the background and growth of management theory from its beginnings with Taylor and Fayol to the present. Emphasis will be largely on industrial application. Individual reports as well as case and lecture methods will be used. Prerequisite: 481.
- 594-4. SEMINAR IN MANAGEMENT. Study of the most recent developments in a particular area of management. Individual reports, book reports, and survey of current professional literature form the bases of the course. Prerequisite: 340 or consent of instructor.
- 595-4. SEMINAR IN PERSONNEL MANAGEMENT. Study of recent developments in personnel management. Individual reports, book reports, and survey of current professional literature form the bases of the course. Prerequisite: 485 or consent of instructor.
- 596-4. SEMINAR IN PRODUCTION MANAGEMENT. Current theories in production management will be examined. Individual reports, book reports, and survey of professional literature form the bases of the course. Prerequisite: 483 or consent of instructor.
- 599-2 to 9. THESIS.

MARKETING

Associate Professor James Dewayne Benson, Ph.D. (Iowa)	1957
Associate Professor Charles H. Hindersman, D.B.A. (Indiana)	1960
Associate Professor Paul M. Hoffman, Ph.D. (New York), Chairman	1950
Assistant Professor Claude I. Shell, M.S. (Tennessee)	1960
Instructor Charles E. Rosenbarger, M.B.A. (Indiana)	1956

Marketing, which includes all activities concerned with determining and satisfying consumer desires, is rapidly becoming the major function in the business process. From the initial determination of consumer desires through the medium of market research to the final step of putting products into the consumer's hands through personal salesmanship, marketing knowledge and techniques provide the tools for developing and distributing goods and services in the dynamic economy of today and the future.

The Department of Marketing offers a variety of courses that will prepare the future marketer for his role in American business. Students who specialize in marketing have a variety of courses in sales, advertising, marketing management, transportation, retailing, wholesaling, and market research. Additional senior level or graduate courses are offered to prepare the student for more specialized positions in marketing management and for a Master of Science degree in marketing.

The following curriculum leads to the Bachelor of Science degree.

SUGGESTED CURRICULUM IN MARKETING

General Degree Requirements (See page 6.)	71
School of Business Requirements (See page 7.)	31
Marketing Requirements for the Major	33-35
Marketing 331, 333, 334, 336, 337, 341, 349 or 384	26-27
Marketing 332, 438, 451, 463 (two of the four)	7-8
Related Requirements for the Major	22-23
Management 170, 340, 361, 373	15
Economics 315, 470 or 317	7-8
Electives	32-35
Total	192

Requirements for a minor in marketing with a specialization in general marketing include Accounting 250, Marketing 230, 331 or 332, 333, 337, and 341.

Requirements for a minor in marketing with a specialization in sales and advertising include Marketing 230, 333, 337, 384, 438, and 463.

Requirements for a minor in marketing with a specialization in retailing include Marketing 230, 331, 332, 333, 334, and 337.

Requirements for a minor in marketing with a specialization in industrial marketing include Marketing 230, 333, 334, 336, 337, 341, and 349.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students. Those on the 500 level are for graduate students only.

- 230-5. PRINCIPLES OF MARKETING. A general survey course to acquaint the student with the entire field of marketing. Consideration is given to the underlying economic principles; historical development of distributive systems, channels, agents, institutions, functions, policies, and principles. Prerequisite: Economics 205 or consent of instructor.
- 331-4. RETAILING. Principles underlying the evolution, organization, and operation of retailing, including techniques used and opportunities offered in this field.
- 332-4. STORE MANAGEMENT. Store management; organization, location; layout. Procedures in receiving goods, handling sales; packing; wrapping; customer complaints; agents, institutions, functions, policies, and principles. Prerequisite: 331.
- 333-4. PRINCIPLES OF ADVERTISING. Advertising fundamentals in relation to modern business activities; fields of advertising; advertising media, campaigns, and systems. Prerequisite: 230.
- 334-4. CREDITS AND COLLECTIONS. Organization and operation of the credit department, including the sources and analysis of credit information, collection methods, and correspondence. Retail credit management emphasized. Prerequisite: 230.
- 336-3. PURCHASING. Dealer-supplier relationship, in manufacturing, wholesaling, and retailing. Purchasing for resale and for consumption. Influence in sales promotion materials. Buying from single and multiple suppliers. Prerequisite: 230.
- 337-4. PRINCIPLES OF SALESMANSHIP. History, scope, and importance of selling in modern business; the sales department; the salesman's part in the selling process. Prerequisite: 230.
- 341-4. TRANSPORTATION. Evolution of American transportation systems, and of the current problems of transportation facilities in connection with governmental control and regulation. Prerequisite: 230.
- 349-3. WHOLESALING. Evolution, economic status, and management of non-retail marketing. Position of wholesaling in distribution. Kinds of

wholesaling; types of middlemen; internal organization and operation of wholesalers; trading areas. Analysis relationship between marketing policies of wholesaler and manufacturer and changing patterns of wholesale distribution. Prerequisite: 230.

- 384-4. ADVERTISING MEDIA ANALYSIS. A study of the businessman's problems of selecting appropriate advertising media for the particular advertising mix that affords him the best strategy. Prerequisite: 333.
- 438-4. SALES MANAGEMENT. Developing and training a sales force. The different types of sales forces. Managing sales functions: determining salesmen's territories, quotas, compensation. Budget preparation. Developing and implementing the merchandise plan. Prerequisites: 230, 337 or consent of the instructor.
- 451-4. TRAFFIC MANAGEMENT. Primary industrial traffic management functions, including determination of rates, classification, routing, and proper documentation. Consideration given to loss and damage claims, terminal charges, demurrage, reconsignment and conversion, transit privileges, warehousing, and packing. Emphasis upon co-operative aspects of traffic management requiring transportation.
- 463-3. ADVERTISING MANAGEMENT. The effective use of advertising by business management. An understanding of what advertising can be expected to accomplish under different sets of marketing factors and products. The selection of advantageous advertising programs under different marketing mixes. Prerequisite: 333.
- 490-4. MARKETING RESEARCH AND ANALYSIS. A non-mathematical development of the basic procedures, methods, and theory underlying analysis of primary and secondary market data. Prerequisites: 230, and one quarter of basic statistics or its equivalent.

Courses on the 500 level are for graduate students only.

- 500-2 to 5. READINGS IN MARKETING. Readings in classical and current writings on selected topics in various areas in the field of marketing.
- 501-2 to 5. INDIVIDUAL RESEARCH IN MARKETING. Directed research in marketing.
- 550-4. GRADUATE SURVEY OF MARKETING. Designed to give the graduate student an over-all view of the field of marketing and the field of policy-making decision. Cases are used to illustrate the theory covered. An accelerated course. Not open to students who have had ten or more quarter hours of marketing in their undergraduate preparation.
- 560-4. MARKETING POLICIES. The marketing management approach in the determination of policies employed in solving problems in marketing. Prerequisite: 550 or an undergraduate major in marketing.
- 590-4. ADVANCED MARKETING RESEARCH AND ANALYSIS. The development of advanced procedures, methods and theory of quantitative and qualitative analysis of primary and secondary market data. Prerequisite: 490 or consent of instructor.
- 595-3. SEMINAR IN MARKETING. Problems in marketing theory, research, and policy. May be repeated by a student no more than two times. Prerequisite: 230 or 550.
- 599-2 to 9. THESIS.

SECRETARIAL AND BUSINESS EDUCATION

Professor Harry B. Bauernfeind, M.A. (Northwestern)	1951
Professor Harves Rahe, Ed.D. (Indiana), Chairman	1944-46; 1950
Associate Professor Viola M. DuFrain, Ph.D. (Chicago)	1947
Associate Professor Leonard Jordan West, Ph.D. (Columbia)	1957
Assistant Professor Van A. Buboltz, M.A. (Northwestern)	1937
Assistant Professor Bonnie A. Lockwood, Ph.D. (Pittsburgh)	1945

The Department of Secretarial and Business Education offers two undergraduate programs of study. One leads to the Bachelor of Science degree with a major in secretarial studies and office management; the other leads to the Bachelor of Science in Education degree with a major in business teacher education. Undergraduate minors are offered in these same two areas.

The department also offers a graduate program leading to the Master of Science in Education degree with a major in business teacher education. A graduate minor is offered in the same area.

SECRETARIAL STUDIES AND OFFICE MANAGEMENT CURRICULUM IN THE SCHOOL OF BUSINESS

This curriculum leads to the Bachelor of Science degree.

<i>General Degree Requirements</i> (See page 6.)	71
<i>School of Business Requirements</i> (See page 7.)	31
<i>Secretarial and Business Education Requirements for the Major</i>	42
Secretarial and Business Education ¹ 102, 103, 104, 105, 106, 107, 113, 213, 216, 307, 308, 313, 407	
<i>Related Requirements for the Major</i>	31
English 300	4
Management 170, 271, 340, 361, 372 or 373, 385	23
Speech 101	4
<i>Electives</i>	17
<i>Total</i>	192

BUSINESS TEACHER EDUCATION CURRICULUM IN THE COLLEGE OF EDUCATION

This curriculum leads to the Bachelor of Science in Education degree.

The most commonly demanded subjects to be taught in Illinois high schools are typewriting, bookkeeping, shorthand, and general business in that order. Students are advised, therefore, to include typewriting as one of their areas of preparation. There are few business teaching positions available to those who are not prepared to teach typewriting.

<i>General Degree Requirements</i> (See page 6.)	71
<i>College of Education Requirements</i>	66-73
Educational Administration and Supervision 100 or 331, 355	7
English 300 or 391 (prerequisite for student teaching)	3-4
Guidance 422 or Instructional Materials 417	4
Psychology 201, 303 or Guidance 305	8
Secondary Education 310, 352-12	16
Speech 101 (prerequisite for student teaching)	4
Minor in a second teaching field	24-30
<i>Secretarial and Business Education Requirements for the Major</i>	55-48
Economics 307 or Guidance 420 or Mathematics 410	4
Preparation for teaching in at least three of the following areas:	
1. Typewriting: ¹ 102, 103, 104, 113, 213, 403.	7-16
2. Shorthand and Transcription: ¹ 105, 106, 107, 216, 308, 404.	7-23
3. Bookkeeping, Record Keeping, and Business Arithmetic: 408, Accounting 251, 252, 253.	15
4. General (Basic) Business Subjects: 405 and four of the following: Economics 205, 355, Management 170, 271, 371, Marketing 230, (333 or 337).	18-21
5. Office Practice, Clerical Practice, and Office Machines: ¹ 102, 103, 104, 113, 213, 313, 406.	12-21
6. Secretarial Practice: ¹ 102, 103, 104, 105, 106, 107, 113, 213, 216, 307, 308, 313, Management 271.	20-45
7. Business Law: Management 371, (372 or 373).	8
8. Salesmanship and Other Distributive Education Subjects: Marketing 230 and two of the following: Marketing 331, 332, 333, 334, 336, 337, 341, 349, 384.	11-13
<i>Electives</i>	0
<i>Total</i>	192

¹ Students who demonstrate by examination an initial competence in typewriting may be excused from as many as 9 credit hours of typewriting; those starting with a proficiency in shorthand may in a similar manner be excused from as many as 16 hours of shorthand.

MINOR PROGRAMS

Minor programs are offered in the following areas: (1) undergraduate minor in business teacher education consisting of a minimum of 30 quarter hours of work in business; (2) undergraduate minor in secretarial studies and office management consisting of a minimum of 24 quarter hours of work in business.

Minor programs in secretarial and business education are generally planned for each student individually by the student and a representative of the department. This procedure is necessary because students' backgrounds and needs vary greatly. The typical minor programs which follow, however, will fit the needs of many students desiring to minor in secretarial studies or business education.

TYPICAL MINOR PROGRAMS IN SECRETARIAL STUDIES

1. For students with no previous training in typewriting or shorthand. 102, 103, 104, 105, 106, 107, 113, 213, 216, 308. Total: 33 hours.
2. For students with one year of previous training in both typewriting and shorthand. 104, 107, 113, 213, 216, 308, 313, Management 271. Total: 27 hours.
3. For students with two years of previous training in both typewriting and shorthand, and who can take sustained, new-matter dictation at 80 words per minute. 113, 213, 216, 307, 308, 313, 407. Total: 24 hours.
4. For students with two years of previous training in both typewriting and shorthand, and who can take sustained, new-matter dictation at 100 words per minute. 113, 213, 307, 308, 313, 407, Management 271. Total: 24 hours.

TYPICAL MINOR PROGRAMS IN BUSINESS TEACHER EDUCATION

1. Preparation for teaching bookkeeping, calculating machines, and general business. 313, 405, 408, Accounting 251, 252, 253, Management 170, 371. Total: 30 hours.
2. Preparation for teaching typewriting and general business. For students without previous training in typewriting. 102, 103, 104, 213, 403, 405, Management 170, 271, 371. Total: 30 hours.
3. Preparation for teaching typewriting and shorthand. For students without previous training in typewriting and shorthand. 102, 103, 104, 105, 106, 107, 213, 216, 308, 403, 404. Total: 38 hours.
4. Preparation for teaching typewriting, shorthand, office practice, and office machines. For students with two years of previous training in type-

writing and one year of previous training in shorthand. 107, 113, 213, 216, 307, 308, 313, 403, 404. Total: 30 hours.

5. Preparation for teaching typewriting, shorthand, and secretarial practice. For students with two years of previous training in both typewriting and shorthand, and who can take sustained, new-matter dictation at 80 words per minute. 113, 213, 216, 307, 308, 313, 403, 404, Management 271. Total: 30 hours.

6. Preparation for teaching typewriting, shorthand, and secretarial practice. For students with two years of previous training in both typewriting and shorthand, and who can take sustained, new-matter dictation at 100 words per minute. 113, 213, 307, 308, 313, 403, 404, 407, Management 271. Total: 30 hours.

7. Preparation for teaching typewriting, shorthand, bookkeeping, and general business. For students with two years of previous training in both typewriting and shorthand, and who can take sustained, new-matter dictation at 100 words per minute. 113, 213, 308, 403 or 404, 405 or 408, Accounting 251, 252, 253, Management 170, 371. Total: 34 hours.

COURSE DESCRIPTIONS

Tests are given during the first week of all shorthand and typewriting courses to insure the correct placement of students in courses.

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students. Those on the 500 level are for graduate students only.

- 102-3. TYPEWRITING I. An introductory course in touch typewriting aimed at developing a typing rate of at least 30 words per minute. Includes simple business correspondence, tables, and manuscripts. May not be taken for credit by students who have had previous high school or other formal training in typewriting.
- 103-3. TYPEWRITING II. Continuation of 102. Emphasis on further skill development, on business correspondence, and on other vocational and personal applications of typing skill. Prerequisite: 102, or one semester of high school typing and the ability to type at least 30 words per minute and to prepare simple business correspondence.
- 104-3. TYPEWRITING III. Continuation of 103. Further skill development, with emphasis on more complicated vocational and personal applications of typing skill. Prerequisite: 103, or one year of high school typing and the ability to type at least 40 words per minute and to type business correspondence, tables, etc., of moderate difficulty.
- 105-4. SHORTHAND I. An introductory course in Gregg shorthand. May not be taken for credit by students who have had previous high school or other formal training in shorthand.
- 106-4. SHORTHAND II. Continuation of 105. Completion of shorthand theory

and introduction to dictation and transcription. Prerequisite: 105, or approximately one semester of shorthand instruction in high school, or equivalent.

- 107-4. **SHORTHAND III.** Continuation of 106. Major emphasis on improving dictation and transcription skills. Prerequisite: 106, or one year of high school instruction in shorthand (or equivalent) and the ability to take sustained, new-matter dictation at 60 words per minute.
- 113-1. **DUPLICATING.** Skills and knowledges in (1) the preparation of master copies and stencils and (2) the operation of liquid and stencil duplicating machines. Prerequisite: 102 or equivalent.
- 213-3. **TYPEWRITING IV.** Continuation of 104. Development of advanced skills in typing straight copy, business correspondence, manuscripts, forms, and tables; preparation of copy from rough draft materials; typing master copies for duplicating machines; transcription from machine dictation. Prerequisite: 104 or $1\frac{1}{2}$ to 2 years of high school typing and the ability to type at least 50 words per minute and to prepare business correspondence, tables, manuscripts, forms, etc.
- 216-4. **SHORTHAND IV.** Continuation of 107. Development of high-level dictation and transcription skills and knowledges. Prerequisite: 107, or $1\frac{1}{2}$ to 2 years of previous high school training in shorthand and transcription (or equivalent) and the ability to transcribe on the typewriter sustained, new-matter dictation taken at 80 words per minute.
- 307-4. **SECRETARIAL PRACTICE.** An advanced course for secretaries, covering such topics as personality and human relationships, office mail, office equipment, travel, sources of information, communications, and business reports. Prerequisite: 213, 216.
- 308-4. **TRANSCRIPTION.** Continuation of 216. Development of advanced dictation and transcription competencies. Prerequisite: 216, or two years of previous high school training in shorthand and transcription (or equivalent) and the ability to transcribe on the typewriter sustained, new-matter dictation taken at 100 words per minute.
- 313-4. **OFFICE CALCULATING MACHINES.** Operation of basic types of office calculating machines, emphasizing the characteristic uses of each kind of machine in the office. Laboratory practice required.
- 403-3. **TEACHING TYPEWRITING.** Conduct of instruction in typewriting: the programming of activities in typewriting training, methods of instruction, skill-building principles and techniques, selection and preparation of practice materials, standards of achievement, and evaluation of pupil progress. Prerequisite: 104 or equivalent.
- 404-3. **TEACHING SHORTHAND AND TRANSCRIPTION.** Conduct of instruction in shorthand and transcription: the programming of activities in shorthand and transcription training, methods of instruction, skill-building principles and techniques, selection and preparation of practice and homework materials, standards of achievement, and evaluation of pupil progress. Prerequisite: 216 or equivalent.
- 405-3. **TEACHING BASIC BUSINESS.** Instructional methods and materials for, and the evaluation of pupil progress in, such basic business subjects as general business, consumer education, economic geography, business law.
- 406-4. **TEACHING CLERICAL PRACTICE AND OFFICE MACHINES.** In-

structional methods and materials for, and the evaluation of pupil progress in, clerical practice and office machines. Prerequisites: 104, 313 or equivalent.

- 407-4. OFFICE MANAGEMENT. A study of the principles of management as applied to office problems. Emphasis on the role of the office in business management; office organization; physical facilities of the office; office services, standards, and controls; records management.
- 408-3. TEACHING BOOKKEEPING AND ACCOUNTING. Deals with instructional methods and materials for, and the evaluation of pupil progress in, bookkeeping and accounting. Attention also is given to the teaching of business arithmetic. Prerequisite: Accounting 253 or equivalent.

Courses on the 500 level are for graduate students only.

- 500-2 to 5. READINGS IN BUSINESS EDUCATION. Supervised readings in selected subjects. Prerequisite: consent of instructor.
- 501-2 to 5. INDIVIDUAL RESEARCH IN BUSINESS EDUCATION. Selection and investigation of a problem; use of relevant sources and techniques; collection, evaluation, and interpretation of data; and the writing of a report on the investigation. Not open to students who take 599. Prerequisite: consent of instructor.
- 502-4. RESEARCH IN BUSINESS EDUCATION. A study of research findings and techniques as exhibited in representative investigations in business education. Emphasis on reading and interpreting research, using research findings in solving instructional problems, and uncovering potential topics for future research. Mathematics 410 or Guidance 420 is a desirable but not a necessary co-requisite.
- 503-4. TESTS AND MEASUREMENTS IN BUSINESS EDUCATION. (Same as Guidance 503.) The selection, construction, administration, and interpretation of tests and test scores in business education subjects. Principal emphasis on teacher-made tests, especially of the performance type, with secondary attention to published tests in the field. Prerequisite: Guidance 420 or Mathematics 410 or Economics 308.
- 504-4. PSYCHOLOGICAL BASES FOR TEACHING SECRETARIAL SKILLS. Deals with the findings of experimental research in human learning applicable to the learning of shorthand, typewriting, and other office skills. Treats the variables in skill learning and modes of manipulating these variables for specific purposes. Special emphasis on the identification of needed research in the learning of the skill subjects and the design and conduct of experimental studies in the field. Prerequisites: 403 or 404, Mathematics 410 or Guidance 420, Psychology 201, and Guidance 305.
- 505-1 to 6. WORKSHOP IN BUSINESS EDUCATION. Major issues in business teacher education. Ordinarily offered during one or two weeks of the summer session. Prerequisite: consent of instructor.
- 506-4. PRINCIPLES AND PROBLEMS OF BUSINESS EDUCATION. A study of the fundamentals of business education; its relation to business, to general and vocational education, and to guidance programs; its history, current status, and trends; special emphasis on objectives and curriculum problems. Prerequisite: consent of instructor.
- 599-2 to 9. THESIS.

Southern Illinois University Foundation

The Southern Illinois University Foundation is a nonprofit corporation chartered by the state and authorized by the Board of Trustees to receive gifts for the benefit of the University, to buy and sell property, and otherwise to serve the University.

It respectfully asks alumni and other citizens of Southern Illinois to consider making gifts and bequests to benefit the University. Such gifts should be conveyed to the Foundation, with proper stipulation as to their uses. The Foundation, through its officers and members, will be glad to confer with intending donors regarding suitable clauses to insert in wills and suitable forms of gifts and memorials, including bequests by means of life insurance. Large or small gifts to the library will be appreciated; likewise, gifts for special equipment, buildings, endowment of professorships in particular subjects, gifts to student loan funds and scholarship funds, gifts for the use of foreign students, and endowments for particular sorts of research. Any gifts or bequests can be given suitable memorial names.

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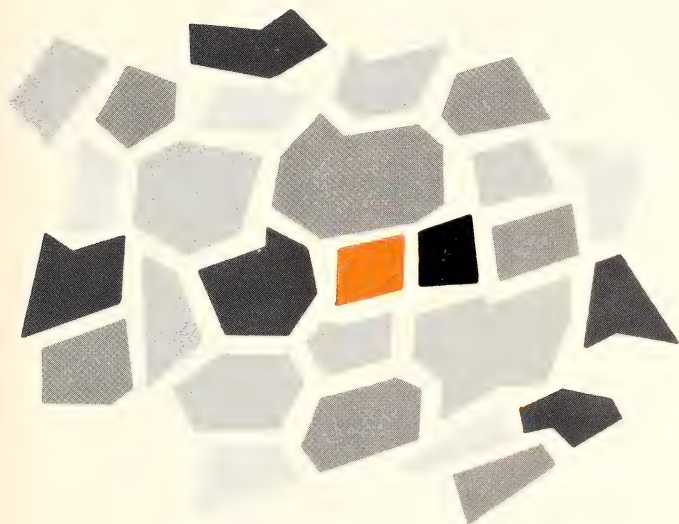
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Southern Illinois University

Bulletin



 *University Institutes*

CARBONDALE CAMPUS 1961-63

Objectives of Southern Illinois University

TO EXALT BEAUTY

IN GOD
IN NATURE
AND IN ART
TEACHING HOW TO LOVE THE BEST
BUT TO KEEP THE HUMAN TOUCH.

TO ADVANCE LEARNING

IN ALL LINES OF TRUTH
WHEREVER THEY MAY LEAD
SHOWING HOW TO THINK
RATHER THAN WHAT TO THINK,
ASSISTING THE POWERS
OF THE MIND
IN THEIR SELF DEVELOPMENT.

TO FORWARD IDEAS AND IDEALS

IN OUR DEMOCRACY
INSPIRING RESPECT FOR OTHERS
AS FOR OURSELVES
EVER PROMOTING FREEDOM
WITH RESPONSIBILITY.

TO BECOME A CENTER OF ORDER AND LIGHT

THAT KNOWLEDGE MAY LEAD
TO UNDERSTANDING
AND UNDERSTANDING
TO WISDOM.

University Institutes

Announcements for 1961-1963



SOUTHERN ILLINOIS UNIVERSITY BULLETIN
Volume 3 Number 5 July, 1961
Second-class postage paid at Carbondale, Illinois.
Published monthly except in April and May by
Southern Illinois University.

The following issues of the *Southern Illinois University Bulletin*
may be obtained without charge from General Publications,
Southern Illinois University, Carbondale, Illinois.

General Information
 Summer Session
 Schedule of Classes
 Graduate School
 College of Education
College of Liberal Arts and Sciences
 School of Agriculture
 School of Applied Science
 School of Business
 School of Communications
 School of Fine Arts
 School of Home Economics
 University Institutes
Division of Technical and Adult Education

Board of Trustees

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CARBONDALE CAMPUS

JOHN E. GRINNELL, *Vice-President for Operations*
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Richard C. Franklin, Director, Community Development Institute	1956
John M. McDermott, Director, Labor Institute	1956
A. W. Bork, Director, Latin American Institute	1958
Guy A. Renzaglia, Director, Rehabilitation Institute	1955
R. Ralph Bedwell, Director, Small Business Institute	1954
Alexander R. MacMillan, Director, Transportation Institute	1959

Registrar and Director of Admissions Robert A. McGrath, Ph.D. (Iowa)	1949
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This Bulletin. . .

covers in detail questions concerning the Community Development Institute, the Labor Institute, the Latin American Institute, the Rehabilitation Institute, the Small Business Institute, and the Transportation Institute. It does not attempt to cover all questions concerning Southern Illinois University. Detailed information about the University appears in the General Information issue of the *Southern Illinois University Bulletin*, and specific information about the Vocational-Technical Institute appears in the Division of Technical and Adult Education issue.

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University Calendar, 1961-1962

SUMMER SESSION*

Session Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Final Examinations	Wednesday–Thursday, August 9–10
Commencement	Friday, August 11

SUMMER QUARTER*

Quarter Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Quarter Ends	Friday, September 1

FALL QUARTER

New Student Week	Sunday–Tuesday, September 17–19
Quarter Begins	Wednesday, September 20
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 22–27
Final Examinations	Monday–Saturday, December 11–16

WINTER QUARTER

Quarter Begins	Tuesday, January 2
Final Examinations	Monday–Saturday, March 12–17

SPRING QUARTER

Quarter Begins	Monday, March 26
Memorial Day Holiday	Wednesday, May 30
Final Examinations	Wednesday–Tuesday, June 6–12
Commencement	Wednesday, June 13

Summer classes will begin on Tuesday, June 20. During the fall, winter, and spring quarters, day classes will begin on the second day of the quarter. Evening classes (5:45 p.m. or later) will begin on the first day of the quarter.

* Provision has been made for either an eight-week summer session or a regular summer quarter. The one to be followed will not be known until after the Illinois General Assembly acts on the University's budget during the 1961 legislative session.

University Calendar, 1962-1963

SUMMER SESSION*

Session Begins	Monday, June 18
Independence Day Holiday	Wednesday, July 4
Final Examinations	Wednesday–Thursday, August 8–9
Commencement	Friday, August 10

SUMMER QUARTER*

Quarter Begins	Monday, June 18
Independence Day Holiday	Wednesday, July 4
Quarter Ends	Friday, August 31

FALL QUARTER

New Student Week	Friday–Sunday, September 21–23
Quarter Begins	Monday, September 24
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 21–26
Final Examinations	Wednesday–Tuesday, December 12–18

WINTER QUARTER

Quarter Begins	Wednesday, January 2
Final Examinations	Wednesday–Tuesday, March 13–19

SPRING QUARTER

Quarter Begins	Wednesday, March 27
Memorial Day Holiday	Thursday, May 30
Final Examinations	Thursday–Wednesday, June 6–12
Commencement	Thursday, June 13

Summer classes will begin on Tuesday, June 19. During the fall, winter, and spring quarters, day classes will begin on the second day of the quarter. Evening classes (5:45 P.M. or later) will begin on the first day of the quarter.

* Provision has been made for either an eight-week summer session or a regular summer quarter. The one to be followed will not be known until after the Illinois General Assembly acts on the University's budget during the 1961 legislative session.



Community Development
Labor

Latin American

Rehabilitation

Small Business

Transportation

The University

SOUTHERN ILLINOIS UNIVERSITY was established in 1869 as Southern Illinois Normal University. The shortened name became official in 1947 by action of the state legislature.

For some years after its establishment, Southern operated as a two-year normal school. In 1907 it became a four-year, degree-granting institution, though continuing its two-year course until 1936. In 1943 the state legislature changed the institution, which had been in theory exclusively a teacher-training school, into a university, thereby taking official recognition of the great demand in the area for diversified training.

The Graduate School, approved in 1943, at first granted only the Master of Science in Education degree. In 1948 it was authorized to grant also the Master of Arts and Master of Science degrees. In 1952 the Master of Fine Arts degree was added to this list, and in 1955 the Doctor of Philosophy degree was added. The Master of Music and the Master of Music Education degrees were authorized in 1956.

In 1949 the Belleville Residence Center was established and the Alton and East St. Louis residence centers in 1957. In 1958 the Southwestern Illinois Residence Office was created to co-ordinate and direct the University's educational activities in the Madison-St. Clair counties area. In 1959 its name was changed to the Southwestern Illinois Campus.

LOCATION

The general administrative offices for the University's campuses at Carbondale, Southern Acres, and Little Grassy Lake are located at Carbondale. The Southwestern Illinois Campus, which is the administrative office for the Alton and East St. Louis campuses, is located at Edwardsville.

The facilities at Carbondale now include more than twenty-five hundred acres of land, thirty-six permanent buildings, and numerous temporary buildings. These buildings house classrooms, auditoriums, laboratories, libraries, offices, living quarters, cafeterias, and farm equipment and animals. The Little Grassy Lake and Southern Acres campuses are each about ten miles from Carbondale.

The facilities of the former Shurtleff College have been leased by the University for the operation of the Alton campus. The East St. Louis campus is located at the former East St. Louis High School building.

SESSIONS

The academic year is divided into three quarters. Each quarter is approximately twelve weeks in length.

The fall quarter opens near the middle of September and closes just prior to the Christmas vacation period. The winter quarter begins early in January and ends about the middle of March. The spring quarter begins the latter part of March and ends about the second week in June. Definite dates for each quarter may be found in the University Calendar.

In addition to the three quarters, there is an eight-week summer session which begins immediately following the close of the spring quarter. The summer session consists of a comprehensive program of courses offered by the departments of the University. In addition to the courses which run the full eight weeks, there are workshops and short courses covering shorter periods of time.

REGULATIONS

The University and its various instructional units reserve the right to change the rules regulating admission, instruction, and graduation; to change courses and fees; and to change any other regulation affecting the student body. Such regulations shall go into force whenever the proper authorities so determine, and shall apply both to prospective students and to those who have enrolled in the University.

Each student must assume responsibility for his progress by keeping an up-to-date record of the courses he has taken and by checking periodically with his adviser and the Registrar's Office. Responsibility for errors in program or in interpretation of regulations of the University rests entirely upon the student. Advice is always available on request.

University Institutes

THE UNIVERSITY INSTITUTES are separate academic units and are not located within any college or school of the University. Their curricula, however, rely upon courses offered by the various departments within the University. In some cases these courses have been designed primarily for institute use, and staff members of the institute teach them.

ADMISSION TO AN INSTITUTE PROGRAM

Students to be considered for admission to an institute program must meet general university admission requirements. In addition, a particular institute may require additional admission qualifications.

COMPLETE DETAILS concerning admission, tuition, fees, housing, financial assistance, and student employment are given in the General Information bulletin. For a free copy write to General Publications, Southern Illinois University, Carbondale, Illinois.

TUITION AND FEES

At the present time legal residents of Illinois registered for more than eight hours pay a total of \$61.50 per quarter. This includes \$42.00 tuition, a \$5.00 book rental fee, a \$5.00 student union building fund fee, and a \$9.50 student activity fee. Out-of-state students pay an additional \$50.00 tuition, or a total of \$111.50. Students registered for eight hours or fewer pay one-half tuition, one-half book rental fee, and full student union building fund fee; they have the option of paying the student activity fee.

REQUIREMENTS FOR THE BACHELOR'S DEGREE

Each candidate for the degree must complete a minimum of 192 hours of credit in approved courses. At least 64 must be in senior college courses, of which 48 must be earned at Southern, 16 of which may be earned in extension from Southern. Each student must have a "C" average, and grades not lower than "C" in subjects aggregating at least three-fourths of the work. A "C" average is required in the major subject. These averages are required for the credit made at Southern as well as for the total record.

The *quarter hour* is the unit of credit used at Southern and throughout this bulletin. One quarter hour is two-thirds of a semester hour.

The following requirements should be met by all degree candidates of the University within the first two years of attendance.

REQUIREMENTS	HOURS	COURSES
Social Studies	20	Economics 205, Geography 100, 300, Government 101, History 101, 102, 103, 201, 202, Sociology 101 (work in four of the five departments)
Humanities	18	
English	(9)	English 101, 102, 103
English	(6)	English 205, 206, 209, 211, 212
Art or Music	(3)	Art 120, Music 100
Biological Sciences	9	
Health Education	(4)	Health Education 100
Botany or Zoology	(5)	Botany 101, 102, 202, Zoology 100
Mathematics and Physical Sciences	12	Chemistry, physics, and mathematics (work in two of the three departments)
Practical Arts and Crafts	3	Agriculture, business administration, home economics, industrial education (not required if the student has had any of this work in high school)
Physical Education	6	Activity courses
Air Science (Men only)	3	Air Science 110, 210, 220, six quarters of leadership laboratory, and three elective courses must be satisfactorily completed before this requirement is fulfilled.
TOTAL	71	

Community Development Institute

Director Richard C. Franklin, Ed.D. (Columbia)	1956
Assistant Professor Frank A. Kirk, M.A. (Chicago)	1957-61
Assistant Professor George M. Stabler, Ph.D. (Michigan State)	1960
<hr/>	
Visiting Professor Dorothy Jones Mial, M.A. (Southern Methodist)	1960-61
Visiting Professor Henry Curtis Mial, M.A. (Syracuse)	1960-61

The Community Development Institute is an outgrowth of the University's interest in assisting, through educational means and research, the improvement of the social, economic, and cultural dimensions of living in Southern Illinois.

After several years of experimental consultation with area communities by the Community Development Service, it became apparent that trained personnel were needed to engage in more productive work aimed at the development of communities—either as citizen leaders or as professional consultants. To help meet this need, the institute's instructional program was inaugurated in 1958. Southern Illinois University is one of the first institutions in the United States to offer this type of program.

The institute also provides educational service to community leaders in the area and participates in research projects investigating the dynamics of community change and the impact of community involvement upon participating citizens.

The instructional program, broadly conceived as interdisciplinary, combines classroom teaching with field training. Emphasis is given to designing a sequence of courses to fit the anticipated career of each student. The aims of the program are to develop understanding in such matters as adult learning, group behavior, the nature and function of the modern

community, communication and the dynamics of change, and to help build competence in working with individuals and groups in the democratic processes of social problem-solving.

FACILITIES

The consultative work of the Community Development Service in many local communities provides an opportunity for field observation, experience and research. Not only do the communities provide "action laboratories," but the University's general faculty and its staff of community consultants form a rich pool of professional resources for supervision and instruction. The close working relationship between the Community Development Institute, Community Development Service, and other units of the University makes this possible.

Community self-surveys and studies, as well as other useful materials, are available through the institute. In addition to these materials, a wide selection of books on community development and related subjects is available in Morris Library.

PROGRAMS OF INSTRUCTION

The Community Development Institute offers an undergraduate major leading to the Bachelor of Science degree, an undergraduate minor, and a graduate major leading to the Master of Science degree.

THE UNDERGRADUATE MAJOR IN
COMMUNITY DEVELOPMENT

<i>General Degree Requirements</i> (See page 4.)	71
<i>Requirements for the Major in Community Development</i>	61
Anthropology 400 or 405 or 409	4
Journalism 331 or 393	3
Psychology 201, 307, 465	12
Secondary Education 450	4-16
Sociology 101 (Counts for General Degree Requirements.) (5)	
Sociology 333, 487, 488	11
Electives in anthropology, education, psychology, sociology (These must be approved by the institute.)	15-27
	<hr/> 61
<i>Electives</i>	60
<i>Total</i>	<hr/> 192

The majority of the courses which are required for the major are taught by instructors in allied fields. Core courses in community development are taught by members of the Community Development Institute and Community Development Service. No minor is required.

THE UNDERGRADUATE MINOR IN COMMUNITY DEVELOPMENT

A minor in community development consists of twenty-four hours. Required courses include Sociology 333, 487, Psychology 465, plus twelve additional hours approved by the institute.

A student interested in the community development curriculum should consult the institute's director and plan his course of study early in his college program.

THE GRADUATE MAJOR IN COMMUNITY DEVELOPMENT

The graduate curriculum, like the undergraduate curriculum, is interdisciplinary in nature. A candidate for a Master of Science degree in community development will take a portion of his work in related academic fields. Depending on his professional plans, it will be possible for him to minor in a field such as agriculture, anthropology, economics, education, geography, government, history, psychology, sociology. Undergraduate work in more than one of these fields is a desirable background for graduate study in community development. Students with inadequate backgrounds may be required to take certain courses to strengthen their backgrounds.

The period of study and training is planned to encompass one and one-half years. Included must be a minimum of 48 hours of graduate credit, plus a six-month internship in a local community-development program in southern Illinois. Only a limited number of interns can be enrolled in any one year.

The requirements for the Master of Science degree in community development include the following:

1. Twenty-eight to 32 hours in courses specifically designed or approved by the Community Development Institute, to include thesis or research paper.
2. Sixteen to 20 hours of work in one or more allied fields, such as anthropology, education, psychology, sociology.
3. Six months of noncredit graduate internship. (This may be reduced or waived for exceptional students with one or more years of acceptable professional experience in community development work.)
4. Fulfillment of the requirements of the Graduate School.

COURSE DESCRIPTIONS

The following courses are designed to meet the needs of students in community development. Several of these courses are open as electives to students desiring to prepare for more effective community leadership. Courses on the 500 level are for graduate students only.

ANTHROPOLOGY

- 400-4. MAN AND CULTURE. The nature of culture and cultural process. Relationships of culture and man as an individual and as a group. Emphasis on "the anthropological point of view."
- 405-4. SOCIAL ANTHROPOLOGY. A comparative approach to the organizational features of human groups. Functional aspects and distributions of kinship, political, religious, and economic systems.
- 409-4. ANTHROPOLOGY AND MODERN LIFE. The applications of anthropological principles to the solution of the problems of the modern world. Contributions of anthropology to the work of the educator, social worker, administrator, businessman, government official, and other specialists dealing with man of the Western and non-Western cultures.
- 475-3. CULTURAL BACKGROUND OF EDUCATION. How societies pass on their cultural patterns. Comparative study of educational processes over the world. Our own methods and goals in helping non-Western peoples adapt themselves to Western culture.

EDUCATIONAL ADMINISTRATION AND SUPERVISION

- 355-4. PHILOSOPHY OF EDUCATION. The philosophical principles of education and the educational theories and agencies involved in the work of the schools.
- 500-4. RESEARCH METHODS. Practical training in research and writing techniques in the field of education. Bibliographical materials, footnotes, use of the library. Recommended that students have Guidance 420, 421, 422.
- 503-4. SEMINAR IN PHILOSOPHY OF EDUCATION. An interpretation of modern educational problems and trends in the light of basic philosophical viewpoints. Excerpts from leading writings will be used.

GEOGRAPHY

- 470-4. URBAN PLANNING. (Same as Government 470.) An interdepartmental course in the basic problems of planning in the urban community. The course includes the administrative and physical principles involved in the planning of urban land use. Emphasis upon research techniques, design principles, and governmental instrumentalities in the planning process. Prerequisite: consent of instructor.

JOURNALISM

- 331-3. PUBLIC RELATIONS. Study of current methods of planning and executing public relations policies; evaluations of media; preparation of campaigns.

- 393-3. **PUBLICITY METHODS.** Not open to journalism majors. Designed for students who do not plan careers in writing, but desire guidance and practice in writing for newspapers and magazines about their fields of specialization.

PSYCHOLOGY

- 201-4. **INTRODUCTORY PSYCHOLOGY.** Introduction to the problems and methods of the science of behavior.
- 307-4. **SOCIAL PSYCHOLOGY.** Introduction to the study of the individual's interaction with his social environment. Considers problems of social learning, communication, social influence processes, and group behavior. Prerequisite: 201.
- 461-4. **ADVANCED SOCIAL PSYCHOLOGY.** Examines current areas of interest in the study of social behavior: language behavior, communication, social influence, attitude change, interpersonal perception, etc. Emphasis on the individual in the social context. Prerequisite: 307 or consent of instructor.
- 465-4. **GROUP DYNAMICS AND INDIVIDUAL BEHAVIOR.** Examination of research and theory in the area of small group interaction. Examines such topics as group structure and function, group problem-solving, and leadership. Prerequisite: 307 or consent of instructor.
- 564-4. **COMMUNICATION AND GROUP BEHAVIOR.** Emphasis on language behavior and the psychological study of the communication process. Examines theories, methods, and research in these areas. Prerequisite: 461 or consent of instructor.

SECONDARY EDUCATION

- 450-4 to 16. **FIELD TRAINING IN COMMUNITY DEVELOPMENT METHODS.** Field observation and experience in community development. The student will study in a community where a development program is in progress, under the supervision of professional consultants. Prerequisite: Sociology 487.
- 586-3. **THE CHANGE AGENT IN PLANNED CHANGE.** (Same as Sociology 586.) An intensive diagnosis of the dynamics involved in planned change in a social system—using actual situations for study—and the consultant's relationship to this process. Prerequisite: Sociology 333 or consent of instructor.
- 589-2. **SEMINAR IN COMMUNITY DEVELOPMENT.** Theoretical ideas and research from other disciplines will be related to community development professional practices. Faculty from allied fields invited to participate. Prerequisite: major or minor in community development.

SOCIOLOGY

- 320-4. **RACE AND MINORITY GROUP RELATIONS.** Racial and cultural contacts and conflicts, causes of prejudice; status and participation of minority groups; national and international aspects of minority problems. Prerequisite: 101.
- 333-4. **COMMUNITY ORGANIZATION.** Factors involved in community organization; types, aims, and objectives; community diagnosis; individual case study of specific community. Prerequisite: 101.

- 406-3. SOCIAL CHANGE. Processes of social change in the modern world; cultural lag and conflict of norms; individual and social problems arising from conflicting system of social values and cultural norms. Prerequisite: eight hours of sociology.
- 486-1 to 5. INDEPENDENT STUDY IN COMMUNITY DEVELOPMENT. Supervised individual study of the literature in community development. Prerequisite: consent of Community Development Institute director.
- 487-4. COMMUNITY DEVELOPMENT I. The concepts of community development and analysis of the social-psychological forces and processes involved in citizen study, planning and action directed toward the fuller development of communities in a democratic society. Laboratory period for field trips. Prerequisite: four hours of sociology or equivalent.
- 488-3. COMMUNITY DEVELOPMENT II. Principles and procedures applicable to solving social problems in the context of a community development program. Laboratory period for field trips. Prerequisite: 487.
- 533-4. ECOLOGY OF HUMAN COMMUNITIES. Spatial and temporal organization of populations and institutions with special reference to the organization of rural and urban communities. Emphasis on basic research methods and current sources of data in respect to type, structure, and growth of communities. Prerequisite: 15 hours of sociology or consent of instructor.

NON-CURRICULAR ACTIVITIES

In addition to the instructional program, the institute is engaged in a variety of related activities, such as:

1. Working with other universities and organizations in the professionalization of community development. Two avenues through which this is done are the Divisions of Community Development of the National University Extension Association and the Adult Education Association of the U.S.A.
2. Co-ordinating short-term training programs for visitors from other nations where community development has been initiated. Agencies through which these visits are arranged include the Community Development Division of the International Co-operation Administration and the Governmental Affairs Institute.
3. Encouraging research and co-operating with other units of the University which are undertaking community-oriented studies.
4. Conducting workshops, conferences, and other training activities aimed at increasing the knowledge and competence of community leaders.
5. Fostering the publication of new material in the community development field through such media as the Institute-Service joint CD Publication series.

Labor Institute

Director John M. McDermott, M.S. (Southern Illinois)

1956

The Labor Institute originated with the assumption that labor is a recognized institution in American society. For many years universities have offered facilities, counsel, and services to farmers, business, and many other community groups. Southern Illinois University has recognized that labor needs and deserves similar attention in meeting and solving its problems within the framework of our economic, political, and social system.

The Labor Institute has three major objectives: to facilitate regular university instruction in the disciplines related to the labor field; to encourage research in the labor area; and to organize and promote programs of education in the labor field designed to serve workers, employers, and the public. In accomplishing these objectives, the institute co-operates with the other academic units of the University and draws upon their instructional staffs.

PROGRAMS OF INSTRUCTION

The Labor Institute does not offer degree-credit courses. Students interested in the labor field are invited, however, to consult the institute for curriculum information or advice. It is a responsibility of the institute to keep informed about all related academic courses and programs and to work co-operatively with the academic units concerned. Faculty members and student organizations may also consult the institute for assistance in bringing to the campus speakers or consultants who are labor experts from labor, government, or other universities.

The Labor Institute provides non-degree-credit classes and conferences in and for the labor field. These take the form of intensive short

conferences of one to three days duration or more extended classes designed to meet the educational needs of particular labor groups. Such conferences and classes are held both on and off campus.

Noncredit courses are tailored to the needs of particular groups, and their content and structure are usually developed jointly by the institute and a committee drawn from the participating organization. Members of the faculty of the University, as well as specialists in the labor field, are called upon to fulfill teaching assignments.

OTHER SERVICES

The Labor Institute helps to provide speakers and assistance in the labor field on an informal basis to individuals or organizations who request such assistance. The institute also serves as an unofficial information center for people interested in labor matters.

Individuals or organizations interested in the Labor Institute and its services are invited to address their inquiries to the Director, Labor Institute, Southern Illinois University, Carbondale, Illinois.

Latin American Institute

Director A. W. Bork, Doctor en Letras (National University of Mexico)	1958
Assistant Director B. C. Hedrick, M.A. (Florida)	1959

Beginning with the school year 1958-59, Southern Illinois University has provided a special program of study for the student interested in Latin America. This program is carried out through the facilities of the Latin American Institute. The institute came into being after two years of careful planning and is a clearing house for matters pertinent to Latin America at Southern Illinois University.

Serving the institute in an advisory capacity during the formulative stage and since that time has been the Committee on Latin American Studies composed of the following individuals:

George W. Adams, History	Annemarie Krause, Geography
A. W. Bork, Latin American Institute	Ward M. Morton, Government
Boyd G. Carter, Foreign Languages	Vera L. Peacock, Foreign Languages
J. Cary Davis, Foreign Languages, <i>Chairman</i>	Carroll L. Riley, Anthropology
B. C. Hedrick, Latin American Institute	Walter W. Taylor, Anthropology
J. Charles Kelley, University Museum	G. Carl Wiegand, Economics

The teaching staff serving the institute includes members of the various departments and colleges engaged in teaching courses having Latin American content or application.

The Latin American Institute is an interdepartmental agency established for the following purposes:

1. To stimulate interest in Latin America, and to promote and co-ordinate a program of inter-American studies at Southern Illinois University.
2. To encourage the development of students trained to travel, study, or work in Latin America or in institutions or businesses dealing with Latin America, and to aid in their employment in these areas.
3. To enlarge the opportunities for students from Latin America to attend Southern Illinois University.

4. To encourage grants to Southern Illinois University of funds or materials for the study of Latin America.
5. To co-ordinate all available information concerning fellowships, scholarships, grants, and other opportunities for study and travel of Latin Americans in the United States.

PROGRAMS OF INSTRUCTION

On the undergraduate level, the institute offers a major in inter-American studies leading to the Bachelor of Arts degree in the College of Liberal Arts and Sciences. No undergraduate minor is offered.

On the graduate level, the institute offers a major in inter-American studies leading to the Master of Arts degree.

THE UNDERGRADUATE MAJOR IN INTER-AMERICAN STUDIES

This course of studies is designed to meet the need for increasing concern with Latin America and the growing interest in the field. It is planned to provide students with a wide general background in the history, geography, economics, languages, and literature of Hispanic America. Special emphasis is placed upon achievement of sufficient knowledge of the Spanish language to make it an effective means of communication. This level of linguistic skill is essential to open the doors of cultural understanding and appreciation of Latin America to non-native speakers. Equal proficiency in Portuguese for those who wish to specialize in Brazilian studies will be sought.

The major in inter-American studies prepares the student to participate intelligently and effectively in business or government activities in Latin America or relating to Latin America or assists students to choose a field of specialization for research and teaching.

At the undergraduate level the area studies course is necessarily somewhat strictly prescribed. Although some choice may be allowed and certain variances permitted, requirements generally will include the following:

<i>General Degree Requirements</i> (See page 4.)	71
<i>Requirements for the Major in Inter-American Studies</i>	118
Foreign Languages	36
Spanish 151, 152, 220-4, 311, 312, 313, 333	28
Spanish 315 or 351 or 415	3
Portuguese 100	5
Anthropology 110 or 300 or 400, 307, 421, 422	14

<i>Requirements for the Major in Inter-American Studies</i>		(Continued)
Economics (205) ¹ , 206, 315, 328		12
Geography (100) ¹ , 316, 413		8
Government 363, 370, 371, 392, 471 or 472 or 475		17
History		20
(201) ¹ , 202, 352, 353, 354	14	
470, 471, 472, 473 (two of the four)	6	
Philosophy 120, 121, 170, 441		11
<i>Electives</i>		3
<i>Total</i>		<u>192</u>

Students coming to Southern without any foreign language will be required to take the sequence 101-102-103, 101c-102c-103c in Spanish as prerequisites to the specified courses in the language. If their special interests demand, they should expect also to take such additional courses as desired in psychology, sociology, economics, or business administration. These courses are described in the College of Liberal Arts and Sciences bulletin and the School of Business bulletin.

COURSE DESCRIPTIONS

ANTHROPOLOGY

- 110-4. THE WAYS OF MANKIND. A survey of human origins and of human customs throughout the world, from earliest times to the present day. Development of Man as a biological and cultural being. Relationships and comparisons of Western and non-Western cultures. For freshmen and sophomores only.
- 300-4. MAN'S PLACE IN NATURE. Man as a biological being, his relationships to other living things. Human origins and development. Concept of race and the races of mankind. Human genetics and normal human variation.
- 307-4. PEOPLES AND CULTURES OF THE NEW WORLD. The biological and cultural history of the American Indian and the Eskimo from the earliest known times to the present day.
- 400-4. MAN AND CULTURE. The nature of culture and cultural process. Relationships of culture and man as an individual and as a group. Emphasis on "the anthropological point of view."
- 421-3. INDIANS OF MESO-AMERICA. A survey of the native peoples of Mexico and Central America, their history and their contributions to modern mestizo culture.
- 422-3. INDIANS OF SOUTH AMERICA. A survey of the native peoples of

¹ These courses are required for the major, and they satisfy part of the general degree requirements in social studies. Credit for these courses is counted in the above totals under *General Degree Requirements* but not in the totals under *Requirements for the Major*.

South America and the West Indies, their history and their contributions to the life of modern nations.

ECONOMICS

- 206-4. ECONOMIC PRINCIPLES AND PROBLEMS. Prerequisite: 205.
 315-4. MONEY AND BANKING I. Prerequisites: 205 and 206.
 328-4. INTERNATIONAL ECONOMICS I. Prerequisites: 205 and 206.

GEOGRAPHY

- 100-5. GEOGRAPHY OF MAN. A world regional survey in which significant differences from place to place are observed and analyzed. Basic factors of population distribution are core of the course. Tracing of development of man's working connections with the land and its resources.
 316-4. GEOGRAPHY OF SOUTH AMERICA. A study of the regions and resources of the South American countries as they relate to national and international problems. Prerequisite: 100 or consent of instructor.
 413-3 to 4. GEOGRAPHY OF THE CARIBBEAN LANDS. A regional approach to the study of the lands bordering the Caribbean. Appraisal of the natural-resource base of the various countries. Prerequisite: 100.

GOVERNMENT

- 363-3. UNITED STATES-LATIN AMERICAN RELATIONS. A study of the governmental relations between the United States and the various nations of Latin America. Prerequisite: 231 or 233.
 370-3. INTERNATIONAL RELATIONS. A study of world politics—the causes of international conflict and the conditions of peace. Prerequisite: 101.
 371-4. PROBLEMS OF AMERICAN FOREIGN POLICY. An analysis of selected problems in the field of American Foreign Policy. Prerequisite: 231 or 243.
 392-3. COMPARATIVE GOVERNMENT (LATIN AMERICAN). A comparative study of the political systems of Latin American republics, with special attention given to Mexico and Argentina. Prerequisite: 101 or 231.
 471-4. THE ORGANIZATION AND ADMINISTRATION OF AMERICAN FOREIGN POLICY. An advanced course dealing with the organizational and administrative aspects of American foreign policy. Prerequisite: 243 or 371.
 472-4. INTERNATIONAL GOVERNMENT. Development and organization of international governmental and administrative systems, with emphasis on the United Nations. Prerequisite: 370.
 475-4. INTERNATIONAL LAW. Rules and practices governing the nations in their relations in peace and war. Prerequisite: 370.

HISTORY

- 201-5. HISTORY OF THE UNITED STATES TO 1865. Courses 201 and 202 designed to provide a general survey of the political, social, and economic development of the United States. Course 201 includes national and state constitutional principles as required by Illinois law. Prerequisite: sophomore standing.
 202-5. HISTORY OF THE UNITED STATES SINCE 1865. A continuation of 201. Either 201 or 202 to count toward graduation requirements in the College of Education.

- 352-3. COLONIAL LATIN AMERICA. With a preliminary view of the major Indian cultures and the era of discovery and exploration, this survey emphasizes the political, economic, social, and cultural aspects of Latin-American life through the wars of independence.
- 353-3. INDEPENDENT LATIN AMERICA. A survey of historical patterns and problems in the national life of twenty American countries, from independence to the present.
- 354-3. LATIN AMERICA IN WORLD AFFAIRS. A survey of the international role of Latin America with emphasis on the economic, diplomatic, and military record from the Treaty of Tordesillas to membership in the United Nations.
- 470-3. ARGENTINA, BRAZIL, AND CHILE. A narrative and comparative study of the independent era of the history of the three leading states of South America.
- 471-3. MEXICO IN THE NINETEENTH CENTURY. Significant aspects of Mexican life from independence to the decline of the Diaz Era.
- 472-3. MEXICO IN THE TWENTIETH CENTURY. An analysis of the political, economic, diplomatic, social, and cultural forces in modern Mexican life.
- 473-3. THE CARIBBEAN AREA IN THE TWENTIETH CENTURY. An inquiry into the changing role of the political, economic, strategic, and cultural nature of this Mediterranean of the New World.

PHILOSOPHY

- 120-2. PRACTICAL LOGIC I. Introduction to accurate thinking, and the proper use of the resources of language, covering such topics as signs and symbols, definition, metaphor, fallacies, propaganda analysis, implication, and syllogism.
- 121-2. PRACTICAL LOGIC II. Popular but inadequate ways of gathering and summing up information in contrast with the more reliable procedures of common sense and science.
- 170-3. VALUES IN THE MODERN WORLD. A critical examination of basic moral, religious, aesthetic, and intellectual values of western civilization as these are expressed in selected works of art, music, literature, and philosophy. Attention will be given to alternative value systems and other forces which challenge these values today.
- 441-4. PHILOSOPHY OF POLITICS. Some of the central problems of modern political life, such as sovereignty, world government, authority and consent, the relations of economics and social studies to political theory. Prerequisite: 140 or 340 or consent of instructor.

PORTUGUESE

- 100-5. INTRODUCTORY COURSE. Especially for Spanish majors and minors. Prerequisite: Spanish 153 or consent of instructor.

SPANISH

- 101-3, 102-3, 103-3. ELEMENTARY COURSE. 101 open to students who have had no previous work in Spanish. Prerequisite for 102: 101 or one year of high school Spanish.
- 101c-1, 102c-1, 103c-1. SPANISH CONVERSATION. Courses in conversation and oral drill to be taken with 101, 102, or 103 by students who wish

- additional oral training; elected only by students enrolled in the corresponding beginning sections.
- 151-3, 152-3, 153-3. INTERMEDIATE COMPOSITION AND READING. Grammar review, composition, oral practice, rapid reading of modern authors. Prerequisite: 103 or two years of high school Spanish.
- 220-2 to 6. SPANISH CONVERSATION. Conversation based on topics of current interest. Extensive use of records for comparison and imitation.
- 311-4, 312-4, 313-4. SURVEY OF SPANISH LITERATURE. A survey, continuing to the present day. Lectures and reading of representative authors. Composition one day a week. This series should follow immediately after 153.
- 315-3. ARTE Y CULTURA. Conducted in Spanish. Informal class discussion of reports of students on present-day topics relating to the life and interests of Latin America and Spain; extensive use of films. Prerequisite: 220 or consent of instructor.
- 333-3. SPANISH AMERICAN LITERATURE. Survey of Spanish literature in America from the conquest to modern times. Required of Spanish majors.
- 351-3. ADVANCED COMPOSITION. Daily themes based on Spanish models, with free composition once a week. Class discussions.
- 360-8. STUDY-TOUR OF MEXICO. Two weeks of lectures and intensive conversational drill on campus; four weeks in Mexico. Series of lectures by Mexican teachers during residence in Mexico City and on excursions in the country. Final week on campus for completion of individual projects and reports. Prerequisite: advanced standing in Spanish.
- 415-3. SPANISH PHONETICS. Analysis of the sounds of Spanish and their manner of production; special drill in connected passages of prose and poetry.

GRADUATE MAJOR IN INTER-AMERICAN STUDIES

The purpose of this program is to give the student a broad understanding of inter-American affairs. With this objective in mind, a graduate supervisory committee counsels on the selection of courses for the individual student.

Course work in the inter-American studies program is offered by the departments of Anthropology, Economics, Foreign Languages, Geography, Government, and History.

Prerequisites for the Master of Arts degree include a command of the Spanish language adequate to meet the student's needs for research and communication within the area of his program. The director of the Latin American Institute and the supervisory committee will determine the student's linguistic competence on registration and, where necessary, specify what the student must do to improve his proficiency in Spanish. Whenever the student's program involves the need for Portuguese or French, he will also need to demonstrate or attain satisfactory proficiency in that language. In addition, a satisfactory basic preparation in inter-American studies is required.

Requirements for the Master of Arts degree include

1. The completion of an area of concentration of at least thirty hours of courses acceptable for graduate credit, in one of the above listed departments.
2. The completion of a minimum of eighteen hours of related studies approved by the student's supervisory committee which will meet the requirement for a minor in the Latin American Institute. A maximum of three areas is permitted in the minor field of concentration.
3. The completion of a satisfactory thesis on a Latin American topic in the area of concentration for which five to nine hours of credit are given.

A minor in inter-American studies for those students with a major in a department outside of the institute will consist of a minimum of eighteen hours to be taken in two of the participating departments. Specific course programs will be worked out by the director of the institute, in consultation with the chairmen of the departments involved.

In every case the student's final program must be approved by the graduate supervisory committee, acting under policies established by the Latin American Institute and the Graduate School. Courses and staff employed in the program will be those already approved by the Graduate Council.

SPECIAL SUMMER COURSES

WORKSHOP IN THE GEOGRAPHY OF LATIN AMERICA

Sponsored by the Latin American Institute in co-operation with the Department of Geography of Southern Illinois University, the workshop in the Geography of Latin America is designed for in-service geography and social studies teachers in the elementary and junior high schools. The workshop exists to create in the teacher a thorough understanding of, and identification with, Latin American environment and culture which can be transmitted to the students taught. The ultimate goal is to create in youth a clear understanding of social and cultural conditions extant in the countries to the south.

SUMMER STUDY ABROAD PROGRAM

An annual summer study program at Guanajuato, Mexico, is sponsored by Southern Illinois University's Latin American Institute and carried out in co-operation with the University of Guanajuato. The program is directed and co-ordinated by personnel who have lived in Mexico, and the study group is accompanied by a man-and-wife team. Direct inquiries to the Latin American Institute.

STUDY TOUR OF MEXICO

The institute encourages and co-operates in a biennial Summer Study Tour of Mexico sponsored by the Department of Foreign Languages of Southern Illinois University. The tour is of five weeks' duration and carries eight hours of credit in Spanish. The first two weeks are spent on the campus at Carbondale and consist of lectures on the history and customs, the art and culture of the country, as well as drill on useful phrases. The study group travels by car to Mexico City, which serves as headquarters for three weeks. There are various trips about the capital city with lectures by a competent guide and numerous visits to native villages, markets, and other points of interest. Those interested in the study tour should write to Dr. J. Cary Davis, Department of Foreign Languages, Southern Illinois University, Carbondale, Illinois.

SOUTH AMERICAN STUDY TOUR

In order to create closer personal ties and better mutual understanding between the people of North and South America, a biennial South American Study Tour has been organized under the aegis of the Latin American Institute. Arrangements have been made with six South American institutions of higher learning in Ecuador, Peru, Chile, Argentina, and Brazil to provide a series of twenty to twenty-five lectures and seminars in English on those topics which are of special interest in each country.

CO-OPERATIVE ACTIVITIES

Latin Americanist Directory. The institute maintains an active file of approximately three thousand names of individuals and organizations throughout the world interested and active in the Latin American area.

Visiting Delegations. A special activity of the Latin American Institute is the invitation and entertainment of distinguished visitors from the Latin American countries, including government officials, special lecturers, artists, musicians, and businessmen. From time to time the institute is host to student or professional groups from the Americas.

Radio Broadcasts and Television Programs. The institute has participated in various local radio and television programs which had Latin America as their theme. With the inauguration of the University's television station in the near future, the institute plans a sustained series of programs of an educational and entertaining character.

Latin American Information Center. In the fall of 1959 a Latin Amer-

ican information center was created, with materials housed in the offices of the Institute. The materials contained in the center deal with all countries of Latin America, including the Caribbean area, and are of particular interest to persons interested in traveling to any Latin American nation. Certain statistical information is also available, but no attempt is made to create research facilities. Those interested in more extensive information are referred to the Latin American collection in Morris Library. The center is open to all students, faculty, and the general public.

Latin American Organization. The institute lends full support to the student organization known as the *Latin American Organization*. The purpose of this group is to disseminate information regarding culture, customs, music, and arts of the Americas and to give students the opportunity to practice the Spanish language.

Aid to Business. The institute is happy to co-operate with business in whatever way possible in connection with Latin American activities.

Latin American Commemorations and Festivals. The institute acts as co-ordinator at special commemorative programs, fiestas, and other events including Columbus Day and Pan American Week.

Pan American Festival. The Latin American Institute annually presents a Pan American Festival, a week-long observation devoted to the fostering of a closer understanding and appreciation among the countries of the Americas. The festival series was begun in 1954 with a program dedicated to Latin America as a whole. Subsequent programs have featured Mexico, Peru, the Spanish Borderlands, Venezuela, Brazil, and Ecuador. The 1961 program was dedicated to Colombia. Some features of the festival are outstanding speakers in the Latin American field, museum exhibits, musical recitals, music listening-hours, movies, and art exhibits.

Association for Latin American Studies. The institute participates and co-operates closely with the Association for Latin American Studies in the promotion of Latin American studies in all fields of knowledge. The director of the institute was one of the charter members at the organizational meeting at Sagamore, New York, in August of 1959. This national body promotes Latin American studies, co-operates with other scholarly agencies in the Latin American field, and encourages and aids regional Latin American studies organizations.

Mid-Western Council for Latin American Studies. The Latin American Institute is closely associated with the Mid-Western Council for Latin American Studies. The objective of this council is similar to that of the national association, with which it co-operates.

University Museum. The institute, which is interested in bringing to the campus exhibits of special Latin American significance, co-operates closely with the University Museum, which has long served as a center for

the Latin American emphasis, research, and exhibitions at Southern Illinois University.

LIBRARY RESOURCES

The acquisition of selected collections, periodicals, and newspapers from or about Latin America has been considered a major responsibility of the Latin American Institute. A library plan operates in order to make possible the acquisition and cataloging of new materials. This plan is carried out with the assistance of specially trained Latin American students who work in the University Libraries under the supervision of the professional staff. After three years of operation, and with the co-operation of various departments of the University, the number of holdings pertaining to Latin America is currently approximately 15,000 volumes, in addition to periodical and newspaper holdings.

Among other additions, the important library of Dr. Jose Mogrovejo Carrión of Cuenca, Ecuador, has been acquired by the University. This collection, rich in Ecuadorean materials, is also extensive in items from other South American nations.

PROJECTS PLANNED FOR THE FUTURE

Mesoamerican Organized Research Program. Sponsored by the University Museum, under the direction of Dr. J. Charles Kelley, the Mesoamerican Organized Research Program when operational is to be interdisciplinary, involving the University Museum, the Latin American Institute, the Graduate Research Council, and various academic departments, especially the Department of Anthropology.

The program is to be a long-term investigation of the cultural history, ecology, and general anthropology of northern Mexico, centering in the zone of convergence of Durango, Zacatecas, and Jalisco. It will include archaeological reconnaissance and excavation (at selected sites), studies of the surviving native people and of the modern occupance and language, plus studies of the geology, geography, zoology, botany, and history of the region in relation to the human occupance.

Publications. The institute currently publishes various bulletins and brochures. An ultimate goal in the publications field is a scholarly series of conference proceedings and papers pertinent to Latin America by members of the Southern Illinois University staff. A monograph series pertinent to Latin America is contemplated.

Rehabilitation Institute

Director Guy A. Renzaglia, Ph.D. (Minnesota)	1955
Assistant Director Albert Jene Shafter, Ph.D. (Iowa State)	1957
Assistant Professor Ernest J. Doleys, Ph.D. (Missouri)	1959
Instructor Louis Vieceli, M.S. in Ed. (Southern Illinois)	1958
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Adjunct Professor E. C. Cline, Ph.D. (Cincinnati)	1957
Lecturer Nathan H. Azrin, Ph.D. (Harvard)	1958-61
Lecturer Donald B. Meier, A.B. (Drury)	1960-61
Lecturer Thomas H. North, M.S. in Ed. (Southern Illinois)	1959
Lecturer Henry Tellerman, M.Ed. (Illinois)	1959-61
Lecturer Arthur Voorhees	1959-61
Lecturer William S. Wood, M.S. (Trinity)	1959-61

During the fall of 1955 a rehabilitation counselor training program was established at Southern Illinois University under the direction of a co-ordinator. Then during the summer of 1956 the co-ordinator assumed supervision of the annual institute for rehabilitation personnel. Subsequently other programs relating to rehabilitation were placed under the co-ordinator's supervision. This multiplicity of programs led to the establishment of the Rehabilitation Institute in 1957 with the co-ordinator becoming its director.

The objectives of the Rehabilitation Institute are (1) to co-ordinate and augment the training of college students and field workers interested in counseling with or providing services for the handicapped; (2) to facilitate and develop within these professional workers responsible standards of professional conduct and ethics; (3) to conduct (and encourage other departments and individuals to engage in) basic and applied research related to both general counseling and the broad area of rehabilitation; (4) to provide counseling and consultative services to both community agencies and handicapped individuals; (5) to establish liaison with community agencies and individuals for mutual facilitation and harmonious

interaction; and (6) to solicit and help organize public support and responsibility for the rehabilitation of handicapped individuals.

FACILITIES

The University has a number of programs and facilities which co-operate with the institute in providing practicum experience and instructional enrichment for rehabilitation personnel. These include the Co-operative Clinical Services, the Occupational Training Center, the Co-ordinated Services for Handicapped Students, the Little Grassy Lake Campus, and other clinics.

The institute also has co-operative arrangements with a number of off-campus agencies. These include the Anna State Hospital, the Illinois Division of Vocational Rehabilitation, the Menard State Penitentiary, and the Southern Illinois Mental Health Clinic. In addition, in its placement counselor training program for the blind, the institute has co-operative arrangements with over fifty plants, industries, and institutions where trainees may observe a variety of competitive occupations. During the summer, additional facilities at greater distance from the University are used for block field work assignments for rehabilitation counseling trainees.

INSTITUTE ACTIVITIES

The Rehabilitation Institute is engaged in instruction, co-ordination, research, and consultation within the rehabilitation field. Its instructional programs, which are described later in this bulletin, are designed for both the trainee and the professional rehabilitation worker.

The Rehabilitation Institute is responsible for co-ordinating requests by university departments for federal and/or state funds sought for either research or demonstration projects within the general area of rehabilitation. Assistance is provided to these departments in matters relating to sources and procedures for obtaining funds, and requests for grants are processed and transmitted through the proper university officials.

The staff of the institute also provides consultant services to private and public agencies concerned with rehabilitation activities. In certain research and service areas co-operative arrangements exist between the institute and various agencies. For example, the institute and the Anna State Hospital jointly sponsor an annual mental health seminar. Consultant services are provided to the Co-ordinated Services for Handicapped Students, a campus agency responsible for co-ordinating university activities related to handicapped students.

The institute provides encouragement and consultation to persons and agencies conducting research in the rehabilitation area. The staff and

students also conduct theoretical and applied research in rehabilitation and other closely related fields.

Finally, both general and vocational counseling is available for students and residents of the area.

STUDENT ORGANIZATIONS

Students in rehabilitation counseling are eligible for membership in the National Rehabilitation Association and the American Personnel and Guidance Association. Depending on area of emphasis, students are also eligible for membership in such professional organizations as the American Psychological Association and the American Sociological Association.

PROGRAMS OF INSTRUCTION

The Rehabilitation Institute's instructional program currently includes (1) a graduate program in rehabilitation counseling which leads to the Master of Arts or the Master of Science degree, (2) a graduate program in rehabilitation administration which leads to the Master of Science degree, (3) a six-week placement counselor training program (blind) offered three times a year for rehabilitation personnel engaged in placing blind persons in competitive occupations, and (4) workshops and institutes.

GRADUATE PROGRAM IN REHABILITATION COUNSELING

Surveys of current efforts in rehabilitation of the handicapped point to the increasing need for well-trained rehabilitation counselors. Impetus to meet this need was given by Public Law 565 (83rd Congress) which made funds available to training institutions for program expansion and for stipends to qualified trainees in rehabilitation counseling. Southern Illinois University has been selected to co-operate with the federal office of Vocational Rehabilitation in the training of such professional personnel.

The rehabilitation counselor is a professionally trained worker who plays a vital role in the vocational and personal adjustment of the physically, mentally, and emotionally handicapped person. The handicapped individual is helped by the rehabilitation counselor to make the most constructive use of his residual, or restored, physical and psychological resources for self-adjustment in both his vocational and personal-social relationships.

A counselor's contributions vary somewhat according to the setting in which he works—state agency, clinic, rehabilitation center, hospital, etc. Because of his professional training and specialized skills, the rehabilita-

tion counselor may function in some settings as co-ordinator of a team composed of representatives from medicine, physical and occupational therapy, psychology, social work, speech and hearing therapy, vocational instruction, and other allied fields. In this role, he may see the handicapped person through the entire rehabilitation process—to include initial contact, referral to medical and related therapies, counseling and psychotherapy embodying data of the rehabilitation team, vocational exploration and training, and continued follow-up of the person to insure an ongoing adjustment and self-directedness. In other settings, the rehabilitation counselor may deal with specific groups of handicapped individuals such as the mentally retarded, the emotionally and mentally disordered, the aged, the blind, the tuberculous, and many others. In these agencies (private and special) he functions more often as a member of the rehabilitation team.

ADMISSION

Students interested in this program must be admitted as graduate students in the University. They should consult the Graduate School bulletin concerning admission procedures. At the same time they should contact the Rehabilitation Institute for forms to apply for acceptance as graduate students in rehabilitation counseling. In this acceptance of trainees the institute is assisted by a committee composed of university personnel and leaders in the rehabilitation field. This committee also advises the institute on all matters of policy. Students are selected on the basis of their undergraduate transcripts, previous work experience, personal characteristics, and test data. An undergraduate major in one of the social studies is particularly desirable for admission to the program, but students with concentrations in the biological sciences or education are also encouraged to apply.

After admission each trainee is continuously evaluated while in progress, and this information is shared with him in conferences designed to help him develop personally and professionally.

FINANCIAL ASSISTANCE

Traineeship grants for an academic year, amounting to \$1,800 for first-year students and \$2,000 for second-year students, are available. These stipends are granted on a year-to-year basis; a student may receive one for a maximum of two years. For further information on these stipends address inquiries to the Director, Rehabilitation Institute, Southern Illinois University, Carbondale, Illinois.

Students should also consult the Graduate School bulletin for information concerning graduate scholarships, fellowships, and assistantships.

THE CURRICULUM

The graduate program in rehabilitation counseling is a two-year program leading to a Master of Arts or Master of Science degree. A minimum of seventy-two hours is required for graduation, and the Master of Arts degree requires a thesis.

The curriculum is flexible so that it may be adapted to the trainee's previous training and experience and to his future occupational interests. The curriculum includes course work, practicum, and field work.

Course work includes required courses, required equivalents, and electives. Required courses must be taken in the departments designated to offer them. Required equivalents are courses that must be taken, but the trainee may select the department. For example, the required courses in methodology may be taken in guidance, psychology, sociology, or special education. Electives are selected on the basis of conferences with the trainee and his adviser. Course work is taken in the departments of Guidance, Physiology, Psychology, Sociology, Special Education, and Speech Correction. A central core of courses in counseling and rehabilitation integrates the offerings of these departments.

The program is oriented toward developing competency in eleven general areas. Suggested courses for satisfying the requirements in each area are listed below. Course titles and descriptions appear in the Graduate School bulletin.

Introduction and Legislative Aspects of Rehabilitation. Sociology 480; Government 438

Human Development and Behavior. Psychology 431, 440, 451; Sociology 426

Medical Aspect of Rehabilitation. Physiology 455

Cultural and Psycho-Social Aspects of Disability. Special Education 410, 571, 572

Psychological Evaluation. Psychology 421, 541, 542, 543, 544, 545, 546; Guidance 422, 522, 535; Special Education 573

Counseling Theory and Practice. Guidance 537, 575A; Psychology 536, 537, 593N

Occupation and Education Information. Guidance 481, 541

Community Resources. Sociology 481, 482

Placement and Follow-up. Guidance 573; Psychology 573

Research and Statistics. Guidance 420, 520, 521; Mathematics 410, 411, 412; Psychology 420, 520, 521, 522; Sociology 511, 513, 514

Pre-counseling Experience. Guidance 574; Psychology 593M

An integral part of the training for rehabilitation counseling in-

cludes agency orientation, practicum, and field work experiences. Trainees receive concurrent assignments in these areas along with their course work throughout their two-year programs. In addition, each trainee receives a three-month training assignment in the field.

In general, first-year student activity is directed toward orientation and pre-counseling experiences, second-year activity toward practicum experiences in counseling. The general plan follows:

First Year

1. ORIENTATION. Leaders in rehabilitation are brought to the campus to present papers and confer with both students and staff. Efforts are made to have at least one consultant per month. In addition, trips are arranged to various rehabilitation settings to observe clients, staff, techniques, and physical facilities. These settings include medical rehabilitation centers, mental hospitals, schools for the retarded, and prisons.

2. PRE-COUNSELING. Prior to actual counseling work, students work under supervision in several different settings such as (1) participation in the annual interview of Division of Vocational Rehabilitation clients on campus, (2) assignments in the Co-ordinated Services for Handicapped Students, (3) a three-month period of orientation and field work with the Rehabilitation Department of Anna State Hospital, and (4) part-time practicum with the local Division of Vocational Rehabilitation office.

Second Year

COUNSELING. This includes an assigned and supervised case load of individuals who have sought counseling or who are clients of the Co-operative Clinical Services Center.

Summer Work

Each student is required to complete a training assignment in an approved rehabilitation setting under supervision. This may be done in such facilities as a state mental hospital, a community agency for the blind, a tuberculosis sanitarium, a summer camp for handicapped persons, a state penitentiary, a local office of the Division of Vocational Rehabilitation, or a rehabilitation center.

GRADUATE PROGRAM IN REHABILITATION ADMINISTRATION

Recent experience with rehabilitation agencies has confirmed a need for a graduate program which trains individuals who have only moderate counseling skills, but who have received considerable training in the administrative co-ordination phase of rehabilitation. As the rehabilitation process grows increasingly complex and specialized, there is an apparent need for the generalist who can relate to and work with the various professional disciplines within the general field of rehabilitation. Such a person

may obtain employment as a program or placement specialist working directly with the physically or mentally disabled or as a promotional or public relations official with welfare agencies, although his ultimate goal is often that of either administrator or co-ordinator of varied rehabilitation programs. The administrator must be capable of working with medical and paramedical personnel in order to utilize their skills to effect the restoration of the disabled individual to his fullest capacity.

ADMISSION

Admission procedures are similar to those described in the Rehabilitation Counseling Program. In addition, it should be noted that preference is given to admitting those persons who have had previous satisfactory employment with a rehabilitation or welfare agency.

THE CURRICULUM

The graduate program in rehabilitation administration is a 48-hour program leading to the Master of Science degree. In general, the curriculum is a modification of the rehabilitation counseling program with less emphasis on counseling and testing. Departments offering courses which are utilized include guidance, physiology, psychology, sociology, special education, and speech correction. Since the program is directed toward persons who have had practical experience in the field, those courses listed in the rehabilitation counseling program will serve as a guide in preparing a final selection of course work for each student. Moreover, equivalent courses may be substituted. In addition to the suggested core courses, students may be encouraged to take work in journalism, secretarial and business education, or speech. In every case, the following requirements apply:

1. The completion of 48 graduate hours. Academic work shall lead toward a general knowledge of medical and paramedical terminology and practice, fundamentals in counseling, community resources and organization, allied professions, occupational information, methodology, administration and supervision, and current concepts relating to rehabilitation theory and practice.
2. A thesis, or a research paper of equivalent standard.
3. Three to six months of satisfactory, supervised experience in an approved rehabilitation setting may be required after the major portion of the course work has been completed. Satisfactory, supervised experience is defined as employment in a rehabilitation setting under the direction of a person of competent and certified experience.

In every case, the student's program will be based on previous experience and occupational goals. Programs will be approved by a graduate supervisory committee, acting under policies established by the Rehabilitation Institute and the Graduate School.

PLACEMENT COUNSELOR TRAINING PROGRAM (BLIND)

This is a six-week short course offered three times a year during the fall, winter, and summer. It is designed to train rehabilitation personnel in the attitudes and methods needed in their efforts to develop employment opportunities for the blind. Studies indicate that placement of the blind in competitive fields has lagged behind other services for them but that obstacles currently hindering placement are by no means insurmountable.

The program includes both course units and practicum units with a central core of practicum units integrating the offerings into skills development. Particular emphasis is given to practicum assignments in demonstration, observation, job analysis, and variations of role-playing and/or socio-drama. Approximately two-thirds of the sessions are devoted to such work.

The first two weeks are spent in Carbondale with emphasis on acquiring an understanding of principles of behavior, salesmanship, management, job analysis, and individual organization and operation. The various units are taught by instructional staff members of the University. Offered simultaneously with these instructional units are demonstrations of actual practice in competitive shop situations so there may be a blending of both the theoretical and practical aspects of competitive skills which blind persons can successfully develop.

The next two weeks are spent in the St. Louis metropolitan area observing the demands of competitive jobs of all types. Twenty to twenty-five plants, industries, and institutions are visited so that both blind and sighted persons may be studied while at work. This activity affords the trainees opportunity to develop the ability to determine whether a given occupation is feasible for a particular blind person.

The last two weeks are spent in Carbondale devoted to additional course work and practical experience. During this phase emphasis is placed upon relations with labor organizations and employees and upon the methods of approaching and developing community resources for more successful employment of blind persons. Practicum experience consists chiefly of transferring learned methods and skills to more rural occupational settings.

ADMISSION

This course, designed to train professional workers in particular skills, is open only to rehabilitation personnel currently concerned with employment opportunities for blind persons. Counselors, placement officers, coordinators, and similar rehabilitation personnel are invited to apply. Enrollment for each course is limited to fifteen.

Admission application may be made through regional offices of the federal Office of Vocational Rehabilitation or sent directly to the Coordinator, Placement Counselor Training Program (Blind), Rehabilitation Institute, Southern Illinois University, Carbondale, Illinois.

Application for the fall course should be made prior to September 15, for the winter course prior to December 15, and for the summer course prior to April 15.

Trainees interested in college credit for this course may receive as much as six hours of graduate or undergraduate credit in guidance. Such trainees must meet the academic standards commensurate with the level of credit taken. It is also possible to audit the course without credit.

FINANCIAL ASSISTANCE

Financial assistance has been made available by a grant from the Office of Vocational Rehabilitation, Department of Health, Education, and Welfare. Traineeship stipends are \$50.00 per week for the four-week period in Carbondale and \$12.00 per diem for the period in the St. Louis metropolitan area. They also include first-class transportation costs to attend the program. Stipends are available to qualified applicants through the Rehabilitation Institute.

THE CURRICULUM

A description of the units of instruction in the curriculum is summarized below. Units, emphasis, or length of sequences may change as a result of the evaluation of preceding programs.

Human Behavior (Two ninety-minute periods). Fundamentals of human behavior.

Salesmanship (Five ninety-minute periods). Basic principles of salesmanship.

Developing Employer Relations (Five ninety-minute periods). Methods of meeting employer objections to the employment of blind persons, ways of building acceptance of blind persons as capable workers, and methods of maintaining sound working relationship with employers to develop an employment program.

Job Analysis With Respect to Blindness (Five ninety-minute periods). Fundamentals of job analysis, methods of analyzing jobs considering techniques of performance without the use of sight, and ways of using job analysis for demonstration purposes.

Patterns of Management Organization and Operation (Five ninety-minute periods). Functions of top management, industrial relations departments, personnel departments, and production departments.

Counseling for Job Readiness (Five ninety-minute periods). Approaches to counseling with blind applicants who are desirous or ready for

employment, with emphasis on assessment of job readiness and probable in-plant behavior.

Special Problems in Placement of Blind Persons (Four ninety-minute periods). A survey of the typical problems counselors meet in developing employment opportunities for blind persons, along with likely methods of solution.

Relationship With Organized Labor (Three ninety-minute periods). A review of the structure of organized labor, methods of contract negotiations, grievances and how they are handled, developing co-operation with organized labor.

Developing Community Resources (One 210-minute period). Assessing and developing forces in various communities to encourage employment of blind persons.

Relationship with Community Agencies (One ninety-minute period). Methods of developing good working relationship with community agencies that might be of help in a rehabilitation program.

Shop Work (Ten three-hour periods including five two-hour practicum periods). Observation of tools and machines in a variety of shops, explanation of the use of these tools and their application to job operation in competitive employment, job demonstration by blind and sighted counselors.

Field Work (Twenty four-hour periods). Observation and assessment of the skills required by workers in a representative sample of occupations, observation and participation in agency's program for developing employment opportunities in competitive occupations.

WORKSHOPS AND INSTITUTES

The Rehabilitation Institute offers various workshops or institutes for rehabilitation personnel. They are usually interdisciplinary in nature, and college credit may be possible. An example of this type of program is the annual Institute for Rehabilitation Personnel offered during the summer. Each year approximately sixty persons attend a two-week session to observe demonstrations and to participate in discussions with leaders in rehabilitation fields. The institute serves as a valuable orientation for new workers and permits experienced personnel to remain familiar with current trends and practices. Specific information appears in the University's Summer Session bulletin.

Persons interested in developing similar programs may direct inquiries to the Director, Rehabilitation Institute, Southern Illinois University, Carbondale, Illinois.

Small Business Institute

Director R. Ralph Bedwell, M.S. (Syracuse)	1954
Assistant Director Claude I. Shell, M.S. (Tennessee)	1960

The Small Business Institute was established in 1954 as a result of university studies which revealed that many small communities were failing to retain their young people after graduation from college due to the lack of business opportunities. The institute is one aspect of the University's program to help Southern Illinois students start small businesses and to discover other local business opportunities. It is also interested in assisting area businesses solve their problems.

The Small Business Institute has as its goal the development of executives for small businesses, rather than the creation of specialists in a single field such as accounting, finance, or sales. Because the businessman plays a vital part in the civic functions of his community, efforts are made, through counseling and internship, to develop in the student additional skills for community leadership.

FACILITIES

Businesses and business leaders throughout Illinois and certain areas of neighboring states have co-operated in the training offered through the institute. This has been especially true regarding the internship part of the student's program, which is carefully designed to give the student an exposure to all aspects of business management in his chosen field. Under joint supervision of company management and institute staff, the student studies the business in which he interns and submits an extensive written report on his analysis and recommendations.

In addition, these businesses provide speakers and leaders for campus programs, which help to acquaint the student with actual business situations throughout his academic program.

ADMISSION

A student who is eligible for admission to the University will be admitted to the Small Business Institute provided (1) he shows initiative, ability, and the other necessary traits for building a successful business and (2) he has decided to definitely prepare for a smaller business after graduation.

A student entering the University who has a small business objective in mind should follow usual university admission procedures. He should, however, consult with the director of the institute prior to filing his admission papers with the Admissions Office, because the institute restricts its program to students possessing the above qualifications. Unless this is done the institute reserves the right to deny the student continuance in its program.

PROGRAM OF INSTRUCTION

The Bachelor of Science degree with a major in small business management may be earned in the Small Business Institute.

<i>General Degree Requirements</i> (See page 4.)	71
<i>Business Courses Required for the Major in</i>	
<i>Small Business Management</i>	67-78
Accounting 250	4
Economics (205) ¹ , 206, 307	8
Management 170, 320, 327, 360, 364, 371, 372,	
373, 421, 472	42-53
Marketing 250, 333, 337	13
<i>Related Requirements for the Major</i>	4
Speech 101	4
Mathematics (106b) ¹ , (107b) ¹	(8)
<i>Electives</i>	39-50
Some of the courses selected as electives should relate directly to the student's special area.	
<i>Total</i>	192

In addition to the courses listed above, a student must pass an English qualifying examination, taken during his sophomore year.

¹ These courses are required for the major, and they satisfy part of the general degree requirements in social studies and mathematics. Credit for these courses is included in the above totals under *General Degree Requirements* but not in the totals under *Related Requirements for the Major*. Higher mathematics courses may be taken depending on placement test scores.

Each small business major must designate the particular small business he plans to enter within the areas of manufacturing, distribution, and services by the end of his sophomore year. Courses are then selected from several departments of the University to provide specific knowledge about the designated business and to give a sound management background applicable to all business.

As the student completes his third year of study, much of his basic training is completed. Each student is then given the opportunity to *intern* in his chosen field. This practical experience may be obtained during summer sessions or regular quarters under the supervision of the institute's staff.

OTHER SERVICES

The institute provides various services for area businessmen, both institute graduates and others.

Management training courses and seminars for businesses are conducted, both on campus and in other parts of southern Illinois. These are designed to keep the businessman up to date on current problem areas and offer academic assistance where practical.

In co-operation with the School of Business and other academic units of the University, the institute offers consulting services to businessmen on individual operational problems. Businessmen are free to visit the campus for these services at no cost to them, and by special arrangement the staff will come to the business location, analyze the situation and problem areas, and make recommendations.

Transportation Institute

Director Alexander R. MacMillan, B.S. (U.S.M.A.)

1959

The Transportation Institute was established on July 1, 1960, to help meet the increasing need for specially educated men and women in the transportation industry. With all four major modes of transport (airway, highway, railway, and waterway) experiencing revolutionary developments in operation and organization, the transportation industry, so vital to the economy and security of the nation, holds exceptional opportunities for career-minded students. To this end, the Transportation Institute, in co-operation with other agencies of the University will arrange for special graduate, undergraduate, and adult education courses in transportation.

PROGRAMS OF INSTRUCTION

GRADUATE AND UNDERGRADUATE

In the Bachelor of Science degree programs of the School of Business, transportation courses are available to students planning to enter the transportation or traffic management fields. The election of these courses is particularly recommended for those expecting to seek the Master of Science degree in transportation.

A Master of Science degree in transportation is being offered in co-operation with the School of Business. Courses will be selected from several departments of the University with consideration given to the graduate student's specialized interest and education. All students will be required to take certain courses in transportation and traffic management to satisfy the requirements for this degree.

IN-SERVICE AND ADULT EDUCATION

Certificate courses to provide in-service and upgrading education are offered in co-operation with the Division of Technical and Adult Education. These courses are specially prepared to serve the needs of operating and administrative personnel in the broad fields of transportation and traffic management in co-operation with the industries concerned and their respective educational advisory committees.

THE TRAFFIC MANAGEMENT PROGRAM

1. New in-service courses designed to qualify candidates for certification by the American Society of Traffic and Transportation, as part of the Industrial and Technical Program.
2. An adult education course in the use of electronic computers as an aid to the control of materials flow and in solving distribution problems.

THE WATERWAYS PROGRAM

1. Marine Financing, Liability and Regulatory Control in the Barge and Towing Industry.
2. Techniques of Loading and Unloading Barges for Terminal Operation Supervisors.
3. For the several categories of towboat crew personnel interested in preparing for U.S. Coast Guard license examinations and career advancements.

THE MOTOR CARRIER PROGRAM

1. Rates and Tariffs, Financing, Liability and Regulatory Control.
2. Terminal Management, Claims Prevention and Accident Reporting.
3. Effective Fleet Operations.

THE AIR SERVICES PROGRAM

1. Effective County and Community Airport Operations, Rules and Regulations.
2. Airport Terminal Management, Air Freight and Air Express Handling and Forwarding Procedures.
3. Public Relations, Sales, Reservations and other Services.

THE RAILROAD PROGRAM

1. Rates and Tariffs, Claims Prevention and Tracing.
2. Freight and Passenger Station Operation.
3. Public Relations, Sales and Reservations.

Special certificate courses in safety, designed to support the transportation industry's programs, are also offered through the co-operation of the University's Safety Center and the Division of Technical and Adult Education.

OTHER SERVICES

The Transportation Institute is in the unique position to conduct studies and research in the interest of the entire industry. With the institute located at practically the center of the nation's transportation system, its research capabilities are readily available and convenient to the industry.

In keeping with its objectives, the Transportation Institute sponsors special conferences and workshops in the interest of the transportation industry and the field of traffic management. These special meetings bring together educational and industrial personnel for study and recommendations concerning matters of mutual interest.

The Transportation Institute is co-operating with the industry on a program to develop greater interest in transportation education—wherever it may be offered—with a view to motivating more college-trained students for careers in the transportation field, and to assist with the placement of those who qualify.

Those courses mentioned as being prepared or planned are expected to be available during the 1961-62 academic year.

Inquiries concerning the programs and services of the institute should be addressed to the Director, Transportation Institute, Southern Illinois University, Carbondale, Illinois.

Southern Illinois University Foundation

The Southern Illinois University Foundation is a nonprofit corporation chartered by the state and authorized by the Board of Trustees to receive gifts for the benefit of the University, to buy and sell property, and otherwise to serve the University.

It respectfully asks alumni and other citizens of Southern Illinois to consider making gifts and bequests to benefit the University. Such gifts should be conveyed to the Foundation, with proper stipulation as to their uses. The Foundation, through its officers and members, will be glad to confer with intending donors regarding suitable clauses to insert in wills and suitable forms of gifts and memorials, including bequests by means of life insurance. Large or small gifts to the library will be appreciated; likewise, gifts for special equipment, buildings, endowment of professorships in particular subjects, gifts to student loan funds and scholarship funds, gifts for the use of foreign students, and endowments for particular sorts of research. Any gifts or bequests can be given suitable memorial names.

The staff members of the Foundation are

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Objectives of Southern Illinois University

TO EXALT BEAUTY

IN GOD
IN NATURE
AND IN ART
TEACHING HOW TO LOVE THE BEST
BUT TO KEEP THE HUMAN TOUCH.

TO ADVANCE LEARNING

IN ALL LINES OF TRUTH
WHEREVER THEY MAY LEAD,
SHOWING HOW TO THINK
RATHER THAN WHAT TO THINK,
ASSISTING THE POWERS
OF THE MIND
IN THEIR SELF-DEVELOPMENT.

TO FORWARD IDEAS AND IDEALS

IN OUR DEMOCRACY
INSPIRING RESPECT FOR OTHERS
AS FOR OURSELVES,
EVER PROMOTING FREEDOM
WITH RESPONSIBILITY;

TO BECOME A CENTER OF ORDER AND LIGHT

THAT KNOWLEDGE MAY LEAD
TO UNDERSTANDING
AND UNDERSTANDING
TO WISDOM.

1961-1962 Schedule of Classes

Edwardsville Campuses

Fall, Winter, and Spring Quarters



SOUTHERN ILLINOIS UNIVERSITY BULLETIN

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The following issues of the *Southern Illinois University Bulletin* may be obtained without charge from General Publications, Southern Illinois University, Carbondale, Illinois.

General Information
Summer Session
Schedule of Classes (Carbondale)
Schedule of Classes (Edwardsville)
General Announcements (Edwardsville)
Graduate School
College of Education
College of Liberal Arts and Sciences
School of Agriculture
School of Applied Science
School of Business
School of Communications
School of Fine Arts
School of Home Economics
University Institutes
Division of Technical and Adult Education

All intending students should have the General Information Bulletin (issued once a year), plus the special bulletins of the various educational units in which they are most interested.

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This Bulletin

contains the schedule of classes to be offered on the Edwardsville campuses for the fall, winter, and spring quarters of the 1961-62 school year. It also provides information relative to advisement and registration. It does not cover all questions concerning Southern Illinois University. For additional information about the Edwardsville campuses the prospective student should refer to the General Information bulletin and General Announcements (Edwardsville).

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University Calendar, 1961-1962

Edwardsville Campuses

SUMMER SESSION

Session Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Final Examinations	Wednesday–Thursday, August 9–10
Commencement	Friday, August 11

FALL QUARTER

New Student Week	Saturday–Sunday, September 16–17
Registration	Tuesday, September 19
Classes Begin	Thursday, September 21
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 22–27
Final Examinations	Monday–Saturday, December 11–16

WINTER QUARTER

Registration	Tuesday, January 2
Classes Begin	Thursday, January 4
Final Examinations	Wednesday–Monday, March 14–19

SPRING QUARTER

Registration	Monday, March 26
Classes Begin	Wednesday, March 28
Memorial Day Holiday	Wednesday, May 30
Final Examinations	Wednesday–Tuesday, June 6–12
Commencement	Thursday, June 14

Calendar of Events, 1961-62

SEPTEMBER

- 16 Saturday. New Student Orientation.
9:00 A.M.—5:00 P.M. Edwardsville campus.
6:00 P.M.—10:00 P.M. Social activity, Rock Spring Park, Alton.
Bus schedule for first day of orientation:
8:00 A.M. Buses leave Alton and East St. Louis for Edwardsville.
5:00 P.M. Buses leave Edwardsville for Rock Spring Park, Alton.
10:00 P.M. Buses leave Rock Spring Park for Alton and East St. Louis campuses.
- 17 Sunday. Orientation continues at respective campuses in Alton and East St. Louis. 1:30 P.M.—7:00 P.M.
- 19 Monday. Fall quarter begins.

OCTOBER

- 30 Monday. Homecoming activities begin.

NOVEMBER

- 4 Saturday. Homecoming activities end.
- 10 Friday. Guidance Test Battery 9:00 A.M., Alton Auditorium.
- 17 Friday. Guidance Test Battery 9:00 A.M., East St. Louis, Rm. 113.

DECEMBER

- 11 Monday. Fall quarter final examinations begin.
- 16 Saturday. Fall quarter final examinations end.

JANUARY

- 2 Tuesday. Winter quarter begins.

FEBRUARY

- 24 Saturday. American College Test 9:00 A.M., Alton Gymnasium.
- 24 Saturday. American College Test 9:00 A.M., East St. Louis Auditorium.

MARCH

- 2 Friday. Guidance Test Battery 9:00 A.M., Alton Auditorium.
- 9 Friday. Guidance Test Battery 9:00 A.M., East St. Louis, Rm. 113.
- 14 Wednesday. Winter quarter final examinations begin.
- 19 Monday. Winter quarter final examinations end.
- 26 Monday. Spring quarter begins.

APRIL

- 21 Saturday. American College Test 9:00 A.M., Alton Gymnasium.
- 21 Saturday. American College Test 9:00 A.M., East St. Louis Auditorium.

MAY

19 Saturday. Guidance Test Battery 9:00 A.M., Alton Gymnasium.

26 Saturday. Guidance Test Battery 9:00 A.M., East St. Louis, Rm. 113.

JUNE

6 Wednesday. Spring quarter final examinations begin.

12 Tuesday. Spring quarter final examinations end.

14 Thursday. Commencement.

Registration Calendar

Fall Quarter, 1961

- September 13 Freshmen and new student testing.
 See Testing Calendar, page 3.
- September 16 New Student Orientation begins.
- September 17 New Student Orientation ends.
- September 19 Fall quarter begins.

General registration for classes at Alton and East St. Louis.

Students must register for classes at the location at which they plan to attend in accordance with the alphabetical registration calendar. Students registering at Alton will report to the Auditorium Building to pick up authorization-to-register permits. Students registering at East St. Louis will report to the west (9th Street) door of the main building for the authorization-to-register permits.

CLASS	HOURS COMPLETED
Freshman	47 or fewer
Sophomore	48 to 95
Junior	96 to 143
Senior	144 or more
Graduate	Degree completed
Unclassified	Nondegree seeking

SENIORS	JUNIORS	SOPHOMORES
8:00- 8:20 L-M	10:20-10:40 L-M	12:40-1:00 L-M
8:20- 8:40 N-R	10:40-11:00 N-R	1:00-1:20 N-R
8:40- 9:00 S-T	11:00-11:20 S-T	1:20-1:40 S-T
9:00- 9:20 U-Z	11:20-11:40 U-Z	1:40-2:00 U-Z
9:20- 9:40 A-C	11:40-12:00 A-C	2:00-2:20 A-C
9:40-10:00 D-G	12:00-12:20 D-G	2:20-2:40 D-G
10:00-10:20 H-K	12:20-12:40 H-K	2:40-3:00 H-K

4:30P.M.-8:30 P.M. In addition to regular registration periods, graduate students and students taking evening and and/or Saturday classes may register at this time.

September 20

FRESHMEN

8:00- 8:30 L-M
8:30- 9:00 N-R
9:00- 9:30 S-T
9:30-10:00 U-Z
10:00-10:30 A-C
10:30-11:00 D-G
11:00-11:30 H-K

4:30 P.M.-8:30 P.M. Graduate students, students taking evening only and/or Saturday classes, and unclassified (nondegree) students may register at this time.

September 21	Classes begin 8:00 A.M.
September 27	Program Change Day: 9:00 A.M.-12:00 M., 1:00 P.M.-4:00 P.M., 5:00 P.M.-7:00 P.M. All program changes must be completed this day. Only class drops will be accepted after this date.
October 3	Last day to withdraw from school to be eligible for a refund of fees.
October 4	Last day for refund applications to be submitted to the Registrar's Office for refund of fees.
October 17	Last day to withdraw from a course without receiving a letter grade.
December 2	Last day to drop a class or withdraw from school except under exceptional conditions.
December 11	Final examinations begin.
December 16	Final examinations end.

Registration Calendar

Winter Quarter, 1962

January 2

General registration for classes at Alton and East St. Louis. Students must register for classes at the location at which they plan to attend in accordance with the alphabetical registration calendar. Students registering at Alton will report to the Auditorium Building to pick up authorization-to-register permits. Students registering at East St. Louis will report to the west (9th Street) door of the main building for the authorization-to-register permits.

CLASS	HOURS COMPLETED
Freshman	47 or fewer
Sophomore	48 to 95
Junior	96 to 143
Senior	144 or more
Graduate	Degree completed
Unclassified	Nondegree seeking

SENIORS

8:00- 8:15	H-K
8:15- 8:30	L-M
8:30- 8:45	N-R
8:45- 9:00	S-T
9:00- 9:15	U-Z
9:15- 9:30	A-C
9:30- 9:45	D-G

SOPHOMORES

12:00-12:15	H-K
12:15-12:30	L-M
12:30-12:45	N-R
12:45- 1:00	S-T
1:00- 1:15	U-Z
1:15- 1:30	A-C
1:30- 1:45	D-G

JUNIORS

10:00-10:15	H-K
10:15-10:30	L-M
10:30-10:45	N-R
10:45-11:00	S-T
11:00-11:15	U-Z
11:15-11:30	A-C
11:30-11:45	D-G

FRESHMEN

1:45- 2:00	H-K
2:00- 2:15	L-M
2:15- 2:30	N-R
2:30- 2:45	S-T
2:45- 3:00	U-Z
3:00- 3:15	A-C
3:15- 3:30	D-G

	4:00 P.M.–8:00 P.M. In addition to regular registration periods, graduate students and students taking evening only and/or Saturday classes may register at this time.
January 3	6:00 P.M.–8:00 P.M. Graduate students, unclassified (non-degree) students and students taking evening only and/or Saturday classes may register at this time.
January 4	Classes begin 8:00 A.M.
January 9	Program Change Day: 9:00 A.M.–12:00 M., 1:00 P.M.–4:00 P.M., 5:00–7:00 P.M. All program changes must be completed this day. Only class drops will be accepted after this date.
January 15	Last day to withdraw from school to be eligible for a refund of fees.
January 16	Last day for refund applications to be submitted to the Registrar's Office for refund of fees.
January 29	Last day to withdraw from a course without receiving a letter grade.
March 3	Last day to drop a class or withdraw from school except under exceptional conditions.
March 14	Final examinations begin.
March 19	Final examinations end.

Registration Calendar

Spring Quarter, 1962

March 26

General registration for classes at Alton and East St. Louis Students must register for classes at the location at which they plan to attend in accordance with the alphabetical registration calendar. Students registering at Alton will report to the Auditorium Building to pick up authorization-to-register permits. Students registering at East St. Louis will report to the west (9th Street) door of the main building for the authorization-to-register permits.

CLASS	HOURS COMPLETED
Freshman	47 or fewer
Sophomore	48 to 95
Junior	96 to 143
Senior	144 or more
Graduate	Degree completed
Unclassified	Nondegree seeking

SENIORS
8:00-8:15 D-G
8:15-8:30 H-K
8:30-8:45 L-M
8:45-9:00 N-R
9:00-9:15 S-T
9:15-9:30 U-Z
9:30-9:45 A-C

SOPHOMORES
12:00-12:15 D-G
12:15-12:30 H-K
12:30-12:45 L-M
12:45- 1:00 N-R
1:00- 1:15 S-T
1:15- 1:30 U-Z
1:30- 1:45 A-C

JUNIORS
10:00-10:15 D-G
10:15-10:30 H-K
10:30-10:45 L-M
10:45-11:00 N-R
11:00-11:15 S-T
11:15-11:30 U-Z
11:30-11:45 A-C

FRESHMAN
2:00- 2:15 D-G
2:15- 2:30 H-K
2:30- 2:45 L-M
2:45- 3:00 N-R
3:00- 3:15 S-T
3:15- 3:30 U-Z
3:30- 3:45 A-C

	4:00 P.M.–8:00 P.M. In addition to regular registration periods graduate students and students taking evening only and/or Saturday classes may register at this time.
March 27	6:00 P.M.–8:00 P.M. Graduate students, unclassified (non-degree) students and students taking evening only and/or Saturday classes may register at this time.
March 28	Classes begin 8:00 A.M.
April 3	Program Change Day: 9:00 A.M.–12:00 M., 1:00 P.M.–4:00 P.M., 5:00 P.M.–7:00 P.M. All program changes must be completed this day. Only class drops will be accepted after this date.
April 7	Last day to withdraw from school to be eligible for a refund of fees.
April 9	Last day to withdraw from a course without receiving a letter grade.
May 29	Last day to drop a class or withdraw from school except under exceptional conditions.
June 6	Final examinations begin.
June 12	Final examinations end.
June 14	Commencement.

Maps of Edwardsville Campuses

THE FOLLOWING MAPS have been prepared to acquaint the students with the facilities of the Alton campus and the East St. Louis campus.

SUMMIT

9th

10th

OHIO

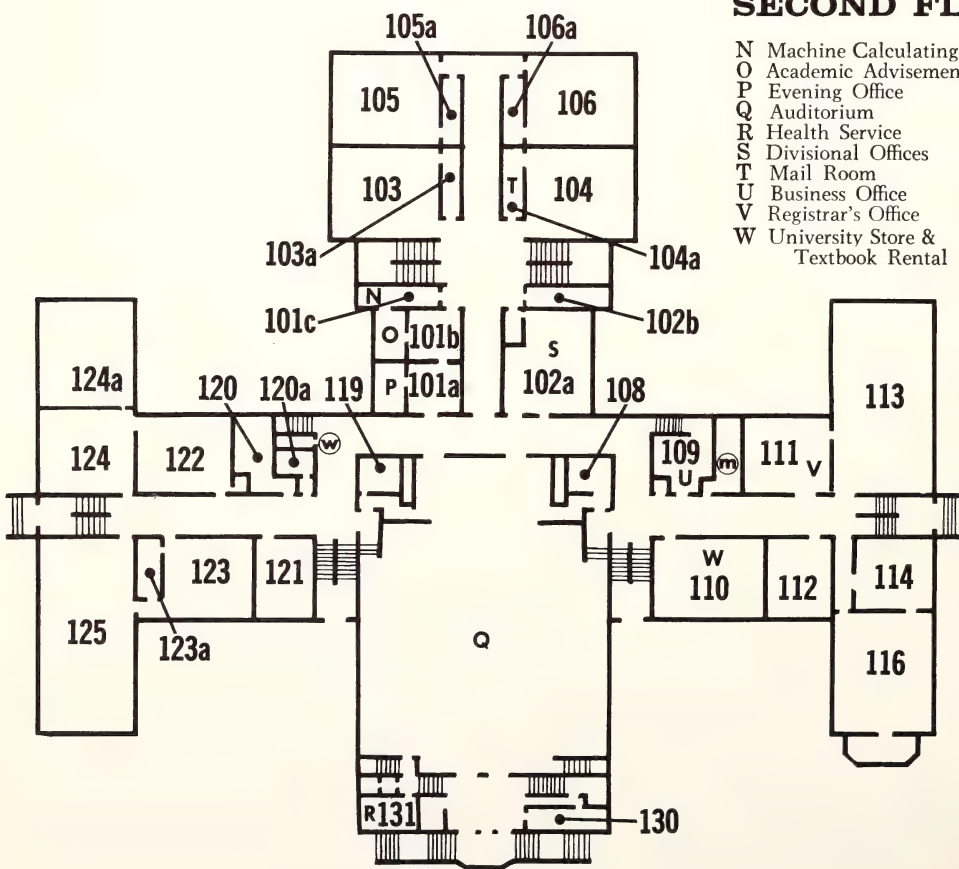
"R" BUILDING

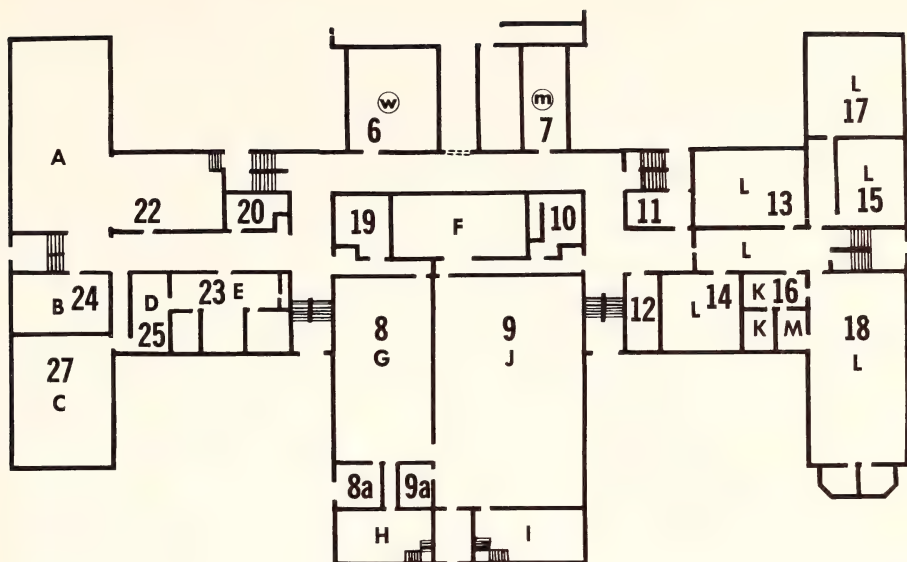
COLLEGE

- A** Cafeteria
- B** Faculty Lounge
- C** Student Lounge
- D** Student Employment
- E** Office of Student Affairs
- F** Mechanics Room
- G** Women's Gym
- H** Women's Shower
- I** Men's Shower
- J** Men's Gym
- K** Public Administration &
Metropolitan Affairs
- L** Library Areas
- M** Librarian's Office

Ⓜ—Women

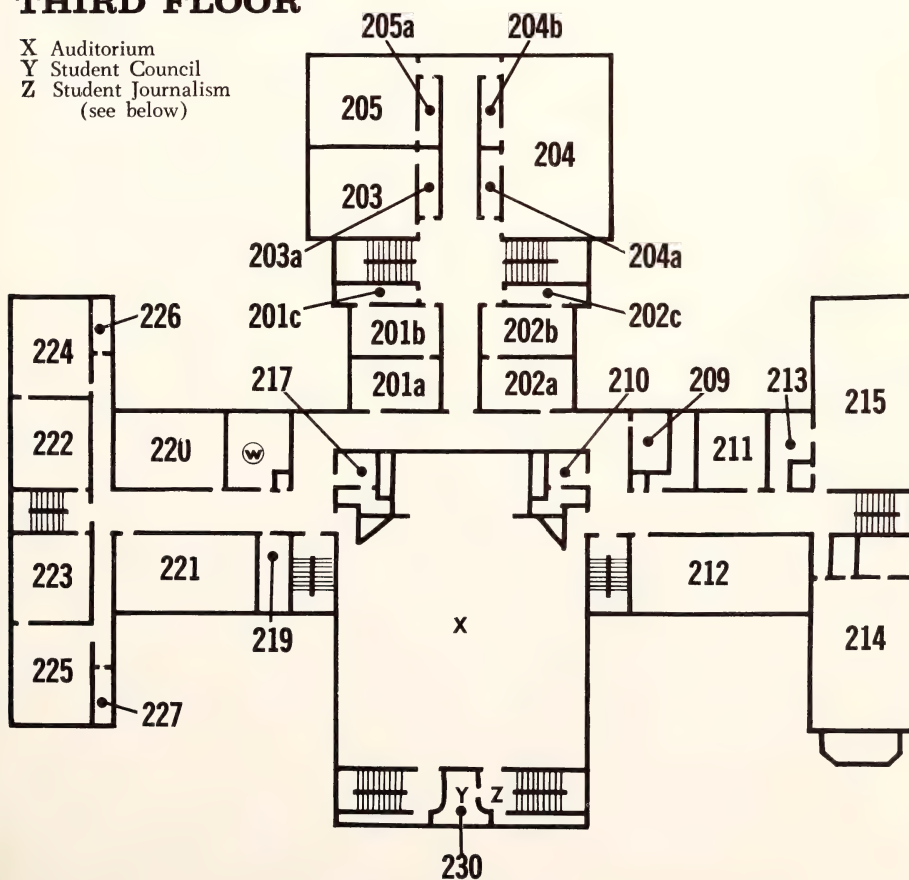
N Machine Calculating Room
O Academic Advisement
P Evening Office
Q Auditorium
R Health Service
S Divisional Offices
T Mail Room
U Business Office
V Registrar's Office
W University Store &
Textbook Rental



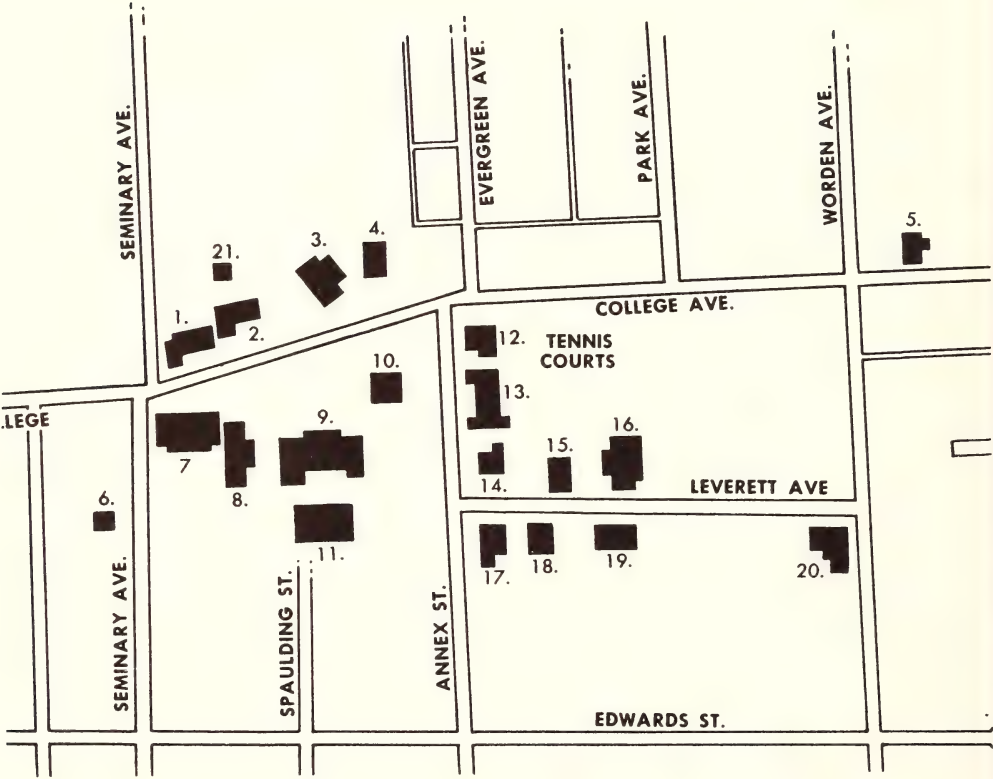


THIRD FLOOR

- X Auditorium
- Y Student Council
- Z Student Journalism
(see below)



ALTON CAMPUS



ALTON CAMPUS

- | | | |
|---|-----------------------|-----------------------------|
| 1 Business Office | 6 Language Laboratory | 15 Humanities (HUM) |
| 2 Registrar | 7 Library | 16 Administration |
| 3 Student Union, Student Affairs, Student Emploment and Placement and Health Service (SU) | 8 Fine Arts A (FAA) | Evening Division Offices |
| 4 Fine Arts C (FAC) | 9 Science (SCI) | Division Heads' Offices |
| 5 Education A - Madison County Mental Health Clinic (EDA) | 10 Auditorium (AUD) | Graduate Office |
| | 11 Gymnasium (Gym) | 17 Classrooms |
| | 12 Annex B (ANB) | 18 Social Studies (SS) |
| | 13 Annex A (ANA) | 19 Business Faculty Offices |
| | 14 Fine Arts B (FAB) | 20 Shurtleff Foundation |
| | | 21 Storage |

General Information

THIS BULLETIN contains the schedule of classes to be offered on the Edwardsville campuses, Alton and East St. Louis, for the fall, winter, and spring quarters of the 1961-62 school year. It also provides the student with information relative to advisement and registration, fees, various calendars of events, and allied information.

Classes offered during the summer session on the Edwardsville campuses will continue to appear in a separate summer session bulletin which is usually available during March of each year.

Class schedule information for the University's Carbondale campus may be secured from the General Publications, Carbondale.

Each student should keep this schedule for the entire school year to use for each quarter's registration.

ADMISSION REQUIREMENTS

NEW STUDENTS

A student must be officially admitted to the University before registration in classes will be permitted. New undergraduates and graduate students should initiate early action by contacting the Registrar's Office for the proper application for admission forms. High school graduates should have a transcript of their high school record sent to the Registrar's Office, Edwardsville, Illinois. Transfer students must have official transcripts from

each college or university previously attended sent directly to the Registrar's Office, Edwardsville, Illinois.

Students who plan to attend evening and/or Saturday classes only, should have completed admission requirements before the registration period.

A student transferring from the Carbondale campus should complete the re-entry form and request the Registrar's Office at Carbondale to send a transcript of his record to the Registrar's Office at Edwardsville before the registration period.

Students who have not completed the admission requirements by the start of the registration period will not be permitted to register.

RE-ENTERING STUDENTS

Students who have attended the University at some former time but not during the session immediately prior to the time they plan to re-enter should initiate action by contacting the Registrar's Office. Specific advisement and registration information will be furnished as they complete their re-entrance procedure with the Registrar's Office.

CURRENT STUDENTS

All students currently registered in the University will be continued in their present curriculum unless a change of major is made. A change of major is initiated with the student's adviser. This change should be made at the time of advisement, and the registrar's copy of the change form should accompany the student's registration. Changes of major made after a registration has been processed will not be reflected in the student's records until the next registration.

ADVISEMENT AND REGISTRATION

The Edwardsville campuses follow the pattern of general registration which permits students to complete registration for classes during a two-day period at the start of the fall quarter and a one-day period at the start of the winter and spring quarters.

Students must register for classes at the location at which they plan to attend in accordance with the alphabetical registration calendars pages ix-x, xi-xii, xiii-xiv.

Advisement of students and class sectioning has been made the responsibility of the University faculty. A Chief Academic Adviser will be

located at each academic center. Upper division students who have declared a major field will be assigned to divisional advisers. Arrangements for a conference with the major adviser should be scheduled as early as possible by the student in planning his program. Lower division students and those undecided as to a major field will be advised by the Chief Academic Adviser.

All entering freshmen must take the Guidance Test Battery prior to advisement and registration. Illinois residents who ranked in the lowest third of their graduating class must take the test battery before they can be considered for admission. Out-of-state students who rank in the lower one-half of their graduating classes must take the tests prior to admission. High school students are encouraged to take the Guidance Test Battery during the spring of their senior year and thus be ready for academic advisement during the summer. A complete set of dates and test centers is available from the Registrar's Office. Students who are not able to take the tests in the spring may make arrangements to be tested on one of the dates listed in the following calendar:

TESTING CALENDAR

Friday, July 7, 1961	East St. Louis
Wednesday, July 26, 1961	Alton
Friday, August 18, 1961	East St. Louis
Saturday, August 19, 1961	Alton
Saturday, August 26, 1961	East St. Louis
Saturday, September 2, 1961	Alton
Wednesday, September 6, 1961	East St. Louis
Friday, September 8, 1961	Alton
Saturday, September 9, 1961	East St. Louis
Wednesday, September 13, 1961	Alton

Transfer students are expected to take the tests unless they have their scores forwarded from their former school. These scores are not normally sent with one's transcript and should be requested from the appropriate office of the former school before the registration period.

New students planning to enter the University during the winter or spring quarters should initiate action by contacting the Registrar's Office. Specific advisement and registration information will be furnished as they complete their admission procedure.

During the registration periods a staff of faculty advisers will be available for consultation with students and for approving student programs.

PAYMENT OF FEES

Payment of fees will be made by each student at the time of registration.

FEES FOR A REGULAR QUARTER

Illinois students taking more than 8 hours will pay the following regular fees:

Tuition	\$42.00
Book rental	5.00
Activity fee	9.50
Student union building fund	5.00
Total	\$61.50

Illinois students taking 8 or fewer hours will pay the following fees:

Tuition	\$21.00
Book rental	2.50
Student union building fund	5.00
Total	\$28.50

(Optional activity fee \$9.50)

Once an option has been made by a student at the time of registration as to whether or not to pay the activity fee, such option is irrevocable.

Out-of-state students will pay an additional \$50 if they take more than eight hours, or an additional \$25 if they take eight hours or fewer.

In addition to the above, there are some physical education classes that require a special fee.

Students having special fee status such as scholarship holders, faculty and staff, will pay their respective fees according to the particular status.

The University reserves the right to change fees and have the change go into effect whenever the proper authorities so determine.

AUDITING OF COURSES

A student may register for courses in an "audit" status. He receives no letter grade and no credit for such courses. An auditor's registration card must be marked accordingly. He pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should not have the audited course placed on his record

card maintained in the Registrar's Office. A student registering for a course for credit may not later change to an audit status or vice versa except for fully justified reasons. Such a change will ordinarily require the academic dean's approval.

CHANGES AND WITHDRAWALS

A student is officially registered only for those courses appearing on his registration cards. Any change therefrom can be made only after fees are paid and must be made through an official program change. A student is considered officially registered after he has cleared his payment of fees at the Business Office.

A prescribed procedure must be followed by any student desiring to change his academic program or to withdraw from the University while the period for which he is registered is still in progress. Failure to follow the prescribed procedure will result in academic penalty.

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program change be approved permitting registration in that class.

A program change must be made in order to drop or add a course. A student may not drop a course merely by stopping attendance. If a student desires to drop a course during the second, third, or fourth week of a quarter, the change will be approved only when the reasons appear valid. If a student desires to drop a course after the fourth week, the change will be approved only under unusual conditions. In the last three weeks of a quarter changes will be approved only in extreme emergencies.

A student processing a program change is required to present his fee receipt program card at the Registrar's Office and must complete the following procedure.

The student must initiate approval for the change with his adviser. For changes made after the regularly scheduled program change day, the approved program change form must then be taken by the student to the Registrar's Office within twenty-four hours after approval by the adviser. After having been cleared with the Registrar's Office, program changes for which a program change fee is assessed must be presented to the Business Office for payment. The student immediately returns the program change to the Enrollment Center in the Registrar's Office for final processing. *A student has not completed his program change until he presents it to the enrollment center in the Registrar's Office.* No change is official until the preceding procedure is complete.

A program change day is listed in each registration calendar.

WITHDRAWAL FROM SCHOOL

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Registrar's Office to initiate official withdrawal action. No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is officially completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration period. See the registration calendars for the specific dates concerning withdrawal and refunding of fees.

CANCELLATION OF REGISTRATION

A registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the registrar by the director of the Office of Student Affairs.

PERSONAL DATA CHANGES

1. A CHANGE IN ADDRESS, whether local, home, or parents', is to be reported by the student to the Registrar's Office as soon as possible after the change occurs. The above addresses for a student are obtained from his Number 7 registration card when he first registers for a quarter during the year. Address changes are not made thereafter during the year unless they are reported as above by the student.

2. A CHANGE IN NAME is to be reported to the Enrollment Center in the Registrar's Office. A change for marital reasons will be made on the basis of a signed statement. Other changes may require the presenting of legal evidence.

3. A CHANGE IN MARITAL STATUS is to be reported to the Registrar's Office. A change will be made if it is based upon incorrect coding or punching. Any other change must be accompanied by a signed statement.

4. A CHANGE IN LEGAL RESIDENCE (whether an Illinois or

out-of-state resident) is to be requested on the Application to be Declared an Illinois Resident form in the Registrar's Office. Before the request is honored, the registrar must be satisfied that the student has met the regulations governing residency status as established by the Board of Trustees.

VETERANS' AND WAR ORPHANS' INFORMATION

The Edwardsville Campuses of Southern Illinois University are approved for veterans. Veterans eligible to receive benefits under the GI bill should contact the University veterans' adviser during registration periods. Public Law 550 expires in 1965. War orphans should discuss Public Law 634 benefits with the veterans' adviser.

Veterans enrolled under Public Law 550 and war orphans under Public Law 634 are subject to the following regulations regarding academic load required for proportional subsistence for the regular quarter.

Type of Enrollment	Number of Hours Required			
	UNDERGRADUATE		GRADUATE	
	QUARTER	SUMMER	QUARTER	SUMMER
Full-time enrollment	14	10	10	7
3/4-time enrollment	10-13	7-9	8-9	6
1/2-time enrollment	7-9	5-6	5-7	4-5
Less than 1/2-time enrollment	6 or less	4 or less	4 or less	3 or less

To be eligible for the benefits of Public Law 550 or Public Law 634, the student must be fully admitted and enrolled as a regular classified student making satisfactory progress in a degree program.

Veterans attending under one of the public laws should note that the Registrar's Office will certify enrollment and attendance to the Veteran's Administration for subsistence purposes only as of the date when fees were cleared at the Bursar's Office.

SIGN-UP PERIODS FOR BENEFITS

Veterans and war orphans eligible for benefits will sign a monthly attendance certification on the first Tuesday of each month starting November 7, 1961 at the Registrar's Office in Alton or East St. Louis.

Checks for the first sign-up period should not be expected before No-

vember 20. Veterans who fail to sign on the specified date will probably experience delay in receiving the check for that period.

RESPONSIBILITY OF THE STUDENT

Each student must assume responsibility for his progress by keeping an up-to-date record of the courses he has taken and by checking periodically with his adviser and the Registrar's Office. Responsibility for errors in program or in interpretation of regulations of the University rests entirely with the student.

Class Schedule Information

THE FOLLOWING material may be of value in interpreting the information appearing in the class schedule.

COURSE NUMBER AND HOURS

The column containing this information shows the number of the course first, followed by the number of hours of credit. Course numbers are three-digit numbers. In some cases the three digits may be followed by a letter which is also part of the course number. The number appearing after the hyphen denotes the hours of credit for the course. In some cases there may be more than one number following the course number such as 599-2 to 5. This represents a variable-hour course in which the student decides the number of hours for which he is going to register in consultation with his adviser.

The course numbering system is as follows:

- | | |
|---------|---|
| 000-099 | Course not properly falling in freshman, sophomore, etc. sequence |
| 100-199 | For freshmen |
| 200-299 | For sophomores |
| 300-399 | For juniors and seniors |
| 400-499 | For seniors and graduate students |
| 500-600 | For graduate students only |

PREREQUISITES

For the guidance of students many courses list the courses which

need to have been taken before the one under question can be taken. These prerequisites may be listed in a number of different ways. If only a number appears in the column, this refers to the division's own course. If the course is another division course, the division will be listed prior to the number. On advanced course levels registration in a course may require the consent of the instructor or of the department.

ACADEMIC LOAD

1. The normal class load for a student is sixteen quarter hours, with a maximum of eighteen hours.

2. A student with a 4.25 average or above for the preceding quarter may be allowed by the head of his division to take as many as twenty-one hours. In no case may a student carry or be credited with more than twenty-one hours in any quarter.

3. A student on probation may not take more than fourteen hours.

4. A person may not register for more than eight quarter hours if he is employed full time.

5. Veterans and war orphans must carry a minimum of 14 quarter hours to qualify for full-time training allowance.

6. The Selective Service System requires a minimum of 12 quarter hours to qualify for a student deferment.

7. The National Defense Education Act requires a minimum of 12 quarter hours to qualify for a student loan.

COURSES "BY APPOINTMENT" OR "TO BE ARRANGED"

Students registering for courses listed as "by appointment" or "to be arranged" should consult with the division head to determine time and place of meeting.

CHANGE OR CANCELLATION OF CLASSES

The University reserves the right to change or cancel any class.

FREE BUS TRANSPORTATION

To provide students with a broader program, certain upper division classes have been scheduled around a bus transportation schedule. Free bus service will be provided between Alton and East St. Louis on Mondays, Tuesdays, Thursdays, and Fridays.

Classes scheduled for inter-campus bus transportation meet twice weekly for periods of one and one-half or two hours.

The bus will depart from East St. Louis on the Ohio Street side and from Alton on College and Seminary streets.

Students taking courses on the bus schedule will not need to travel during the week of final examinations to take their tests. The examination will be proctored at the center at which the course does not meet by the chief academic adviser or a member of his staff.

Likewise, students will not need to travel to return their textbooks. The bookstore personnel will accept texts for courses on the bus schedule at the location different from the one at which the course meets, provided that the student makes clear this situation to the attendant at the time of book return; otherwise record confusion will result.

BUS SCHEDULE

DEPART	ARRIVE	DEPART	ARRIVE
EAST ST. LOUIS	ALTON	ALTON	EAST ST. LOUIS
8:00 A.M.	8:50 A.M.	9:00 A.M.	9:50 A.M.
10:00 A.M.	10:50 A.M.	11:00 A.M.	11:50 A.M.
12:00 M.	12:50 P.M.	1:00 P.M.	1:50 P.M.
2:00 P.M.	2:50 P.M.	3:00 P.M.	3:50 P.M.
4:00 P.M.	4:50 P.M.		

LISTING BY ACADEMIC UNIT

BUSINESS DIVISION:

Accounting	Marketing
Economics	Secretarial Science
Management	

EDUCATION DIVISION:

Administration	Guidance
Elementary	Health Education
Industrial	Instructional Materials
Secondary	Physical Education
Special	Psychology

FINE ARTS DIVISION:

Art	Speech
Music	Theater

HUMANITIES DIVISION:

English	Journalism
Foreign Languages	Philosophy

SCIENCE AND TECHNOLOGY DIVISION:

Applied Science	Mathematics
Astronomy	Physics
Botany	Physiology
Chemistry	Zoology

SOCIAL SCIENCES DIVISION:

Anthropology	History
Geography	Sociology
Government	

Schedule of Classes

Fall Quarter

1961

The following material may be of value in interpreting the information appearing in the class schedule.

- B Course offered only at one campus but scheduled so that students from the other campus may attend by using free bus transportation. See bus schedule on back cover.
- E Evening class.
- ES Evening and Saturday class.
- S Saturday class.

Alton Campus

FALL

East St. Louis Campus

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
ACCOUNTING (ACCT)										
1	8:00-8:50	MTuWTh	ANA 1	251-4	Elementary Accounting I	<i>Prereq.: sophomore standing.</i>	51	10:00-10:50	MTu	ThF
2	10:00-10:50	MTuWTh	ANA 1				52	1:00-1:50	MTu	ThF
3	3:00-3:50	MTu ThF	ANA 1				E 53	6:20-8:10PM	M	Th
E 4	6:20-8:10PM	M	ANA 1				E 54	8:20-10:10PM	Tu	F
E 5	6:20-8:10PM	Tu F	ANA 1				ES 55	6:20-8:10PM	W	224
ES 6	6:20-8:10PM	W	ANA 1					9:00-10:50AM	Saturday	224
1	9:00-10:50AM	Saturday	ANA 1	253-4	Elementary Accounting III	<i>Prereq.: 252.</i>	E 51	6:20-8:10PM	Tu	F
	12:00-12:50	MTuWTh	ANA 1							
E 1	5:55-8:10PM	Tu F	ANA 2	331-5	Tax Accounting	<i>Prereq.: 253.</i>	51	9:00-9:50	MTuWThF	221
1	1:00-2:25	M Th	ANA 2	B341-3	Cost Accounting	<i>Prereq.: 253.</i>		Offered at Alton. See Bus Sched. on back cover.		
				341-3	Cost Accounting	<i>Prereq.: 253.</i>	E 51	5:30-8:10PM	W	221
1	9:00-9:50	MTu ThF	ANA 1	351-4	Advanced Accounting I	<i>Prereq.: 253.</i>	51	2:00-2:50	MTu ThF	205
E 2	6:20-8:10PM	M Th	ANA 2				E 52	6:20-8:10PM	M Th	224
E 1	8:20-10:35PM	Tu F	ANA 2	356-5	Auditing	<i>Prereq.: 353 or consent of instructor.</i>				
<i>Offered at E. St. Louis. See Bus Sched. on back cover.</i>										
				B461-4	C.P.A. and Advanced Accounting Problems	<i>Prereq.: 341 and 353. Offered once annually and only at East St. Louis.</i>	51	12:00-1:50	Tu	F
ANTHROPOLOGY (ANTH)										
1	9:00-10:50	Tu F	ANA 8	B110-4	Ways of Mankind	<i>Prereq.: none.</i>	<i>Offered at Alton. See Bus Sched. on back cover.</i>			
ES 1	8:20-10:10PM	W	SS 21	308-4	Peoples and Cultures of the Old World	<i>Prereq.: none.</i>				
	11:00-12:50PM	Saturday	SS 21							
APPLIED SCIENCE (AP SCI)										
1	8:00-9:50	Tu ThF	ANA 7	101-3	Engineering Drawing I	<i>Prereq.: none.</i>	51	2:00-4:50	M	Th
2	12:00-1:50	MTu F	ANA 7				E 52	6:20-9:10PM	M	Th
3	3:00-4:50	MTu F	ANA 7							
E 4	6:20-9:10PM	Tu F	ANA 7							
E 1	6:20-7:45PM	Tu F	SCI 109	260-3	Analytical Mechanics (Statics)	<i>Prereq.: Math 251 (or concurrent enrollment) and Physics 211 (or concurrent enrollment).</i>	E 51	8:20-9:45PM	M Th	202A
1	11:00-2:50	Tu F	SCI 109	B263-4	Surveying I	<i>Prereq.: 101 and Math 112.</i>	<i>Offered at Alton. See Bus Sched. on back cover.</i>			
1	2:00-3:50	MTu ThF	FAA 2	100-5	Basic Studio	<i>Prereq.: none. 15 hours 100 for all studio courses other than 300.</i>	51	10:00-11:50	MTu ThF	214
	2:00-2:50	W						10:00-10:50	W	214

1	9:00-9:30	M	ThF	FAA 4	120-3	Art Appreciation	Prereq.: none. Satisfies general University requirement.	51	9:00-9:50	M	W	F	215
2	11:00-11:50	M	ThF	FAA 4				52	2:00-2:50	M	W	F	106
E 3	6:20-7:45PM	Tu	F	FAA 4				E 53	6:20-7:45PM	M	Th		104
1	2:00-3:50	MTu	ThF	FAA 3	203-4	Beginning Ceramics	Prereq.: 15 hours of 100.						
1	11:00-12:50	MTuWTh		FAA 21	245-4	Figure	Prereq.: 15 hours of 100.						
1	2:00-3:50	MTu	ThF	Alby St. Stu.	250-4	Oil Painting	Prereq.: 12 hours of 245 or consent of instructor.						
1	9:00-10:50	M	W	FAA 23	300-4	Art Education	Prereq.: none. For elementary education majors and art education majors. Student may elect up to 12 hours. (At East St. Louis, students taking this course for the first time should enroll for the fall or spring quarter.)	51	1:00-2:50	M	W	F	214
2	12:00-1:50	M	W	FAA 23									
E 1	6:20-9:50PM	Tu	F	FAA 3	302-4	Beginning and Advanced Ceramics	Prereq.: 203 or consent of instructor.						
1	2:00-3:50	MTu	ThF	Alby St. Stu.	320-4	Advanced Painting	Prereq.: 12 hours of 250 or consent of instructor.						
1	Arranged	Arranged		Arranged	325-4	Studio	Prereq.: consent of instructor.						
E 1	6:20-8:10PM	M	Th	FAA 4	326-4	History of World Art I	Prereq.: consent of instructor.	51	Arranged	Arranged	Arranged	Arranged	
1	9:00-10:50	MTu	ThF	Alby St. Stu.	358-4	Prints	Prereq.: 245 and 250 or consent of instructor.						
1	Arranged	Arranged		Arranged	401-4	Research in Painting	Prereq.: consent of instructor.						
1	Arranged	Arranged		Arranged	410-4	Research in Prints	Prereq.: consent of instructor.						
BOTANY (BOT)													
1	1:00-1:50	Tu	ThF	SCI 102	101-5	General Botany	Prereq.: none.	51	10:00-10:50	M	W	F	112
	12:00-1:50	M	W	SCI 205					10:00-11:50	Tu	Th		116
2	1:00-1:50	Tu	ThF	SCI 102				52	10:00-10:50	M	W	F	112
	10:00-12:00	Tu	Th	SCI 203					8:00-9:50	M	W		116
General Botany													
					202-5		Prereq.: none.	E 51	6:00-7:15PM	Tu	F		112
									7:25-9:15PM	Tu	F		116
					411-5	The Bryophytes and Pteridiophytes	Prereq.: 101 and 202 and 310.	51	1:00-1:50	M	W	F	112
									2:00-3:50	M	W		116
CHEMISTRY (CHEM)													
1	10:00-10:50	MTu	Th	SCI 300	101-4	General Chemistry	Prereq.: none.	51	2:00-2:50	M	W	F	224
	8:00-10:50	W		SCI 306					10:00-11:50	Tu	Th		125
2	10:00-10:50	MTu	Th	SCI 300				52	2:00-2:50	M	W	F	224
	8:00-10:50	F		SCI 306					3:00-4:50	M	W		125
								ES 53	6:00-7:30PM	M	Th		112
									8:00-11:50AM	Saturday			125

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SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
CHEMISTRY (CHEM) (Continued)										
1	8:00-8:50	M W F	SCI 300	111-5	Chemical Principles and Inorganic Chemistry	Prereq.: none.	51	8:00-8:50	MTu ThF	113
	8:00-8:50	Th	SCI 301					10:00-11:50	M W	125
2	8:00-8:50	Tu	SCI 306				52	8:00-8:50	MTu ThF	113
	8:00-8:50	M W F	SCI 300					1:00-2:50	M W	125
	8:00-8:50	Tu	SCI 301				53	8:00-8:50	MTu ThF	113
3	8:00-10:50	Th	SCI 306					1:00-2:50	Tu Th	125
	8:00-8:50	M W F	SCI 300				54	8:00-8:50	MTu ThF	113
	12:00-12:50	M	SCI 301					3:00-4:50	Tu Th	125
4	12:00-2:50	W	SCI 306				55	12:00-12:50	MTu ThF	113
	12:00-12:50	M W F	SCI 300					10:00-11:50	M W	125
	12:00-12:50	Th	SCI 301				56	12:00-12:50	MTu ThF	113
	12:00-2:50	Tu	SCI 306					1:00-2:50	M W	125
5	12:00-12:50	M W F	SCI 300				57	12:00-12:50	MTu ThF	113
	12:00-12:50	Tu	SCI 301					1:00-2:50	Tu Th	125
6	12:00-2:50	Th	SCI 306					12:00-12:50	MTu ThF	113
	12:00-2:50	M W F	SCI 300				58	12:00-12:50	MTu ThF	113
	2:00-2:50	Th	SCI 208					3:00-4:50	Tu Th	125
	2:00-4:50	M	SCI 306							
1	1:00-1:50	Tu Th	SCI 301	221-3	Qualitative Analysis	Prereq.: 113.	E 51	6:00-7:00PM	M Th	202B
	1:00-3:50	F	SCI 307					Lab. to be arranged.		
E 1	6:00-7:15PM	Tu F	SCI 301	341-4	Organic Chemistry	Prereq.: 113.	51	10:00-10:50	M W F	205
	7:25-10:15PM	Tu	SCI 307					1:00-3:50	Tu	123
E 2	6:00-7:15PM	Tu F	SCI 301				52	10:00-10:50	M W F	205
	7:25-10:15PM	Tu	SCI 307					1:00-3:50	Th	123
E 1	7:00-7:50PM	W	SCI 301	375-0 to 1	Senior Seminar	Prereq.: senior with major in chemistry.	51	Arranged	Arranged	
Offered at E. St. Louis. See Bus Sched. on back cover.										
				B411-3	Intermediate Inorganic Chemistry	Prereq.: 331.	51	12:00-1:25	Tu F	224
1	11:00-11:50	M W F	SCI 301	461-4	Physical Chemistry	Prereq.: 331 and 343 and Math 253 and Phys 213.	E 51	6:00-7:30PM	M Th	202A
	1:00-3:50	Th	SCI 303					Lab. to be arranged.		
ECONOMICS (ECON)										
1	11:00-11:50	MTuWThF	SCI 208	205-5	Survey of Economic Principles	Prereq.: sophomore standing.	51	11:00-11:50	MTuWThF	204
E 2	5:55-8:10PM	Tu F	ANA 1				E 52	5:55-8:10PM	M Th	225
E 3	5:55-8:10PM	W	ANA 2				E 53	5:55-8:10PM	Tu F	225
	9:00-11:15AM	Saturday	ANA 2							
1	2:00-2:50	MTu ThF	ANA 6	206-4	Economic Principles and	Prereq.: 205.	51	9:00-9:50	MTu ThF	103
							E 53	6:00-8:10PM	Tu F	215

307-4	Economic and Business Statistics	Prereq.: 205, Math 106 recommended.	E 51	5:55-8:10PM	M	Th	106
310-4	Labor Problems	<i>Prereq.: 206, or 205 and consent of instructor.</i>					
315-4	Money and Banking I	<i>Prereq.: 205.</i>	51	1:00-1:50	MTuWTh		103
317-4	Economic History of the United States	<i>Prereq.: 205.</i>	51	10:00-10:50	MTu ThF		103
			E 52	8:20-10:10PM	M	Th	103
B330-4	Public Finance I: National	<i>Prereq.: 206, or 205 and consent of instructor.</i>	51	2:00-3:50	Tu	F	215
B41B-4	Economic History of Europe	<i>Prereq.: 206, or 205 and consent of instructor.</i>					
470-3	Business Cycles	<i>Prereq.: 315 or consent of instructor.</i>					
EDUCATIONAL ADMINISTRATION (ED AD)							
331-3	The American Educational Systems	<i>Prereq.: none.</i>					
B331-3	The American Educational Systems	<i>Prereq.: none.</i>	51	12:00-1:25	M	Th	105
B355-4	Philosophy of Education	<i>Prereq.: none.</i>					
355-4	Philosophy of Education	<i>Prereq.: none.</i>					
424-4	School Administration	<i>Prereq.: none, 4 additional sessions to be arranged.</i>					
456-4	School Supervision	<i>Prereq.: none, 4 additional sessions to be arranged.</i>					
			E 51	5:30-8:10PM		Th	AUD
500-4	Research Methods	<i>Prereq.: graduate standing. Guid 422 recommended.</i>	S 51	9:00-11:40AM	Saturday		202B
520-4	Illinois School Law	<i>Prereq.: graduate standing.</i>					
533-4	School Buildings	<i>Prereq.: graduate standing.</i>	E 51	5:30-8:10PM	M		201A
554-4	Contrasting Philosophies of Education	<i>Prereq.: graduate standing.</i>					
575-2 to 4	Individual Research	<i>Prereq.: graduate standing and consent of instructor.</i>	51	Arranged	Arranged	Arranged	Arranged
EDUCATION ELEMENTARY (ED EL)							
203-3	Understanding the Elementary School Child	<i>Prereq.: Psyc 201, 2 hours per week observation arranged.</i>					
313-4	Children's Literature	<i>Prereq.: none. Same as IM 405.</i>					

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SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
EDUCATION ELEMENTARY (ED EL) (Continued)										
1	1:00-2:50	Tu F	ANA 2	B314-4 316-4	Elementary School Methods Kindergarten-Primary Methods and Curriculum	<i>Prereq.: Guid 305. Prereq.: Guid 305.</i>	E 51	4:20-6:10PM	M Th	105
Offered at E. St. Louis, See Bus Sched. on back cover.										
E 1	4:20-6:10PM	Tu F	AUD 2	B337-4 337-4	Reading in the Elementary Schools Reading in the Elementary Schools	<i>Prereq.: 314 or 316, and Guid 305. Prereq.: 314 or 316, and Guid 305.</i>	51	2:00-3:50	M Th	105
1	Arranged	Arranged	Arranged	350D-8 to 12	Kindergarten-Primary Student Teaching	<i>Prereq.: must apply to education division two quarters in advance.</i>	51	Arranged	Arranged	Arranged
1	Arranged	Arranged	Arranged	350E-4 to 8	Advanced Kindergarten- Primary Student Teaching	<i>Prereq.: 350D.</i>	51	Arranged	Arranged	Arranged
1	Arranged	Arranged	Arranged	351D-8 to 12	Elementary Student Teaching	<i>Prereq.: must apply to education division two quarters in advance.</i>	51	Arranged	Arranged	Arranged
1	Arranged	Arranged	Arranged	351E-4 to 8	Advanced Elementary Student Teaching	<i>Prereq.: 351D.</i>	51	Arranged	Arranged	Arranged
415-4					Improvement of Instruction in Arithmetic in the Elementary School	<i>Prereq.: Math 210 or consent of instructor. 4 additional sessions to be arranged.</i>	S 51	9:00-11:40AM	Saturday	201A
E 1	5:30-8:10PM	Th	SS 1	437-4	Problems in Reading	<i>Prereq.: 337. 4 additional sessions to be arranged.</i>	E 51	5:30-8:10PM	F	212
				442-4	Materials and Methods in Elementary School Science	<i>Prereq.: none. 4 additional sessions to be arranged.</i>	E 51	5:30-8:10PM	Th	201A
				461-4	The Elementary School Curriculum	<i>Prereq.: none. 4 additional sessions to be arranged. Not open to students who have had Ed Ad 460.</i>	E 51	5:30-8:10PM		
				505-4	Improvement of Reading Instruction	<i>Prereq.: graduate standing; not for students who have had 337 or 437.</i>	E 51	5:30-8:10PM	W	201A
1	Arranged	Arranged	Arranged	507-2 to 4	Readings in Reading	<i>Prereq.: graduate standing and consent of instructor.</i>	51	Arranged	Arranged	Arranged
E 1	5:30-8:10PM	W	ANA 6	542-4	Language Arts in the Elementary School	<i>Prereq.: graduate standing.</i>				
1	Arranged	Arranged	Arranged	575-2 to 4	Individual Research	<i>Prereq.: graduate standing and consent of instructor.</i>	51	Arranged	Arranged	Arranged
EDUCATION INDUSTRIAL (ED I)										
407-2					Occupational Academic	<i>Prereq.: none</i>	F 51	5:30-8:10PM	Tu	AUD

Offered at E. St. Louis. See Bus Sched. on back cover.		High School Methods		Prereq.: Guid 305.		2:00-3:50		M Th		202A	
E 1	4:20-6:10PM	M	Th	Arranged	Arranged	51	Arranged	Arranged	Arranged	Arranged	Arranged
1	Arranged	Arranged	Arranged	Arranged	Arranged	51	Arranged	Arranged	Arranged	Arranged	Arranged
1	Arranged	Arranged	Arranged	Arranged	Arranged	51	Arranged	Arranged	Arranged	Arranged	Arranged
E 1	5:30-8:10PM	W		Arranged	Arranged	E 51	5:30-8:10PM	Tu	Arranged	Arranged	201B
S 1	9:00-11:40AM	Saturday		Arranged	Arranged	E 51	5:30-8:10PM	W	Arranged	Arranged	201B
1	Arranged	Arranged	Arranged	Arranged	Arranged	S 51	9:00-11:40AM	Saturday	Arranged	Arranged	203
1	Arranged	Arranged	Arranged	Arranged	Arranged	51	Arranged	Arranged	Arranged	Arranged	Arranged

EDUCATION SPECIAL (ED SP)

E 1	5:30-8:10PM	M	Tu	Arranged	Arranged	E 51	5:30-8:10PM	Tu	Arranged	Arranged	212
1	Arranged	Arranged	Arranged	Arranged	Arranged	E 51	5:30-8:10PM	Tu	Arranged	Arranged	212
1	Arranged	Arranged	Arranged	Arranged	Arranged	E 51	5:30-8:10PM	W	Arranged	Arranged	203

ENGLISH (ENG)

1A	11:00-11:50	MTu	F	Arranged	Arranged	51A	11:00-11:50	M W F	Arranged	Arranged	211
2A	2:00-2:50	MTu	F	Arranged	Arranged	52B	9:00-9:50	MTu ThF	Arranged	Arranged	211
3B	8:00-8:50	MTu	ThF	Arranged	Arranged	53B	9:00-9:50	MTu ThF	Arranged	Arranged	201B
4B	8:00-8:50	MTu	ThF	Arranged	Arranged	54B	10:00-10:50	MTu ThF	Arranged	Arranged	211
5B	9:00-9:50	MTu	ThF	Arranged	Arranged	55B	11:00-11:50	MTu ThF	Arranged	Arranged	201B
6B	9:00-9:50	MTu	ThF	Arranged	Arranged	56B	12:00-12:50	MTu ThF	Arranged	Arranged	211
7B	10:00-10:50	MTu	ThF	Arranged	Arranged	57B	1:00-1:50	MTu ThF	Arranged	Arranged	211
8B	10:00-10:50	MTu	ThF	Arranged	Arranged	58B	1:00-1:50	MTu ThF	Arranged	Arranged	201B
9B	11:00-11:50	MTu	ThF	Arranged	Arranged	59B	2:00-2:50	MTu ThF	Arranged	Arranged	211
10B	12:00-12:50	MTu	ThF	Arranged	Arranged	60B	3:00-3:50	MTu ThF	Arranged	Arranged	211
11B	1:00-1:50	MTu	ThF	Arranged	Arranged	E 61B	6:20-8:10PM	M Th	Arranged	Arranged	211
12B	1:00-1:50	MTu	ThF	Arranged	Arranged	E 62B	8:20-10:10PM	M Th	Arranged	Arranged	211
13B	1:00-1:50	MTu	ThF	Arranged	Arranged	E 63B	8:20-10:10PM	M Th	Arranged	Arranged	201B
14B	3:00-3:50	MTu	ThF	Arranged	Arranged	E 64B	6:20-8:10PM	Tu F	Arranged	Arranged	211

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
ENGLISH (ENG) (Continued)										
15B	3:00-3:50	MTu ThF	AUD 3							
E 16B	8:20-10:10PM	M Th	AUD 1				E 65B	8:20-10:10PM	Tu F	211
E 17B	8:20-10:10PM	M Th	AUD 3				ES 66B	6:20-8:10PM	W	211
E 18B	6:20-8:10PM	Tu F	HUM 2					9:00-10:50AM	Saturday	211
E 19B	6:20-8:10PM	Tu F	SS 1				67C	8:00-8:50	MTuWThF	211
E 20B	8:20-10:10PM	Tu F	AUD 1				68C	12:00-12:50	MTuWThF	201B
E 21B	8:20-10:10PM	Tu F	AUD 3				69C	2:00-2:50	MTuWThF	201B
22C	12:00-12:50	MTuWThF	AUD 3							
23C	2:00-2:50	MTuWThF	AUD 3							
ES 1B	8:20-10:10PM	W	AUD 1				51B	9:00-9:50	MTu ThF	224
2B	11:00-12:50PM	Saturday	AUD 1				ES 52B	6:20-8:10PM	W	220
	8:00-8:50	MTu ThF	AUD 4					9:00-10:50AM	Saturday	220
1B	2:00-2:50	MTu ThF	ANA 2				ES 51B	8:20-10:10 PM	W	201B
ES 2B	6:20-8:10PM	W	AUD 3					11:00-12:50PM	Saturday	201B
	9:00-10:50AM	Saturday	AUD 3				52B	8:00-8:50	MTu ThF	112
E 1	6:20-7:45PM	M Th	AUD 5							
1	8:00-8:50	M W F	AUD 5				51	8:00-8:50	M W F	204
E 1	8:20-10:10PM	Tu F	AUD 4				E 51	6:20-7:45PM	M Th	113
1	9:00-9:50	MTu ThF	ANB 1				51	1:00-1:50	MTu ThF	203
1	11:00-12:50	Tu F	AUD 4				51	10:00-10:50	MTu ThF	201B
							E 52	6:20-8:10PM	M Th	105
Offered at E. St. Louis. See Bus Sched. on back cover.								Offered at Alton. See Bus Sched. on back cover.		
Offered at E. St. Louis. See Bus Sched. on back cover.							51	10:00-11:50	M Th	201A
Offered at E. St. Louis. See Bus Sched. on back cover.							51	2:00-3:50	M Th	201A
1	3:00-3:50	MTu Th	AUD 4				E 51	8:20-9:45PM	M Th	112
1	1:00-2:50	Tu F	HUM 22							
ES 1	8:20-10:10PM	W	AUD 4							
	11:00-12:50PM	Saturday	AUD 4							

FOREIGN LANGUAGES (FL)

FRENCH (FR)

Elementary French *Prereq.: none.*

101-4

1 HUM 2 MTu ThF
2 HUM 2 MTu ThF
E 3 HUM 2 M Th
1 ANA 8 Tu F

Intermediate Course

B151-3

E 1 HUM 22 M Th

French Contemporary Novel

304-3

E 1 HUM 22 M Th

GERMAN (GER)

Elementary German *Prereq.: none.*

101-4

1 HUM 2 MTuW F
2 HUM 2 MTuWTh
3 SS 1 MTuWTh
E 4 HUM 2 M Th
1 HUM 22 Tu F

Intermediate Course

B151-3

E 1 HUM 22 M Th

Introduction to German Classical Literature

311-4

E 1 HUM 22 M Th

LATIN (LAT)

Cicero's Essays *Prereq.: 2 years of high school Latin or consent of instructor.*

152-4

ES 1 HUM 2 W
9:00-10:50AM Saturday

RUSSIAN (RUSS)

Elementary Russian *Prereq.: none. Offered once annually and only at East St. Louis.*

B101-4

Offered at E. St. Louis. See Bus Sched. on back cover.

Intermediate Composition and Reading

151-3

51 12:00-1:50 M Th
E 52 6:20-8:10PM Tu F
E 51 8:20-9:45PM Tu F

SPANISH (SPAN)

Elementary Spanish *Prereq.: none.*

101-4

1 HUM 2 MTu ThF

Intermediate Course

151-3

51 3:00-3:50 MTu ThF
E 52 6:20-8:10PM Tu F
E 51 8:20-9:45PM Tu F

GEOGRAPHY (GEOG)

Cultural Geography *Prereq.: none.*

100-5

1 AUD 5 MTuW F
8:00-8:50 Th
2 AUD 5 MTuW F
10:00-10:50 Th
3 AUD 5 MTuW F
10:00-10:50 Th
SS 1 Th
4 AUD 5 MTuWTh
1:00-1:50 F
12:00-12:50 F

Offered at Alton. See Bus Sched. on back cover.

51 9:00-9:50 MTuWTh
52 10:00-10:50 MTuWTh
53 2:00-2:50 MTu ThF

51 12:00-1:25 M Th

51 12:00-1:50 M Th
E 52 6:20-8:10PM Tu F
E 51 8:20-9:45PM Tu F

51 3:00-3:50 MTu ThF
E 52 6:20-8:10PM Tu F
E 51 8:20-9:45PM Tu F

51 10:00-10:50 M W F
222 8:00-8:50 Tu Th
52 10:00-10:50 M W F
215 9:00-9:50 Tu Th
113 10:00-10:50 M W F
222 10:00-10:50 Tu Th
113 10:00-10:50 M W F
113 10:00-10:50 M W F
113 10:00-10:50 Tu Th

FALL

Alton Campus

FALL

East St. Louis Campus

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
GEOGRAPHY (GEOG) (Continued)										
5	1:00-1:50	MTuWTh	AUD 5				E 55	5:55-8:10PM	M Th	222
	1:00-1:50	F	ANA 5							
6	1:00-1:50	MTuWTh	AUD 5							
	1:00-1:50	F	SS 1							
E 7	5:55-8:10PM	Tu F	ANA 5							
1	9:00-9:50	MTuWThF	ANA 5	101-5	Physical Geography	<i>Prereq.: none. Natural science credit for education majors.</i>	51	9:00-9:50	MTuWThF	222
1	11:00-11:50	MTuWThF	ANA 5	211-5	Economic Geography	<i>Prereq.: none. Required for business majors.</i>	E 51	5:55-8:10PM	Tu F	222
E 2	5:55-8:10PM	M Th	ANA 5	B212-3	Map Reading and Interpretation	<i>Prereq.: none. Natural science credit for education majors. Offered once annually and only at East St. Louis.</i>	51	2:00-3:50	M Th	222
Offered at E. St. Louis. See Bus Sched. on back cover.										
1	1:00-2:50	Tu F	SS 21	B310-4	Meteorology	<i>Prereq.: none. Natural science credit for education majors. Offered every other year and only at Alton.</i>	Offered at Alton. See Bus Sched. on back cover.			
				314-4	Geography of Anglo-America	<i>Prereq.: none. Natural science credit for education majors.</i>	E 51	8:20-10:10PM	M Th	222
				315-4	Geography of Europe	<i>Prereq.: none. Natural science credit for education majors.</i>	51	11:00-11:50	MTuWTh	222
1	10:00-10:50	MTuW F	ANA 5	316-4	Geography of South America	<i>Prereq.: none. Natural science credit for education majors.</i>				
Offered at E. St. Louis. See Bus Sched. on back cover.										
				B324-4	Restoration and Conservation of Natural Resources	<i>Prereq.: none. Natural science credit for education majors.</i>	51	12:00-1:50	M Th	222
ES 1	6:20-8:10PM 9:00-10:50AM	W Saturday	SS 1 SS 1	420-4	Geography of Africa	<i>Prereq.: 100 or permission of instructor. Natural science credit for education majors.</i>				
				444-4	Political Geography	<i>Prereq.: five hours of history or government.</i>	ES 51	8:20-10:10PM 11:00-12:50PM	W Saturday	222 222
GOVERNMENT (GOV)										
1	8:00-8:50	MTuWThF	AUD 1	190-5	American Government	<i>Prereq.: none.</i>	51	8:00-8:50	MTuWThF	212
2	9:00-9:50	MTuWThF	AUD 1				52	1:00-1:50	MTuWThF	204
3	11:00-11:50	MTuWThF	SCI 300				E 53	5:55-8:10PM	M Th	204
4	1:00-1:50	MTuWThF	ANA 4							
5	2:00-2:50	MTuWThF	ANB 1							
E 6	5:55-8:10PM	Tu F	AUD 3							

State and Local Government									
I	10:00-10:50	MTuWTh	SCI 209	232-4		Prereq.: 101 or 190 or 231.			
E 1	8:20-9:45PM	M Th	ANB 1	315-3	Administration of Justice	Prereq.: 101 or 190 or 231.			
Offered at E. St. Louis. See Bus Sched. on back cover.					B361-3	Prereq.: 101 or 190 or 231. Offered only at East St. Louis.	51	2:00-3:25	M Th 225
I	11:00-12:50	Tu F	SS 21	B370-4 380-4	International Relations Political Parties	Prereq.: 101 or 190 or 231. Prereq.: 101 or 190 or 231.	ES 51	Offered at Alton. See Bus Sched. on back cover. 6:20-8:10PM 9:00-10:50AM	W 105
				390-5	Principles of Comparative and Foreign Governments	Prereq.: 101 or 190 or 231.	51	9:00-9:50	MTuWThF 112
Offered at E. St. Louis. See Bus Sched. on back cover.					B484-4	Prereq.: six hours of government or philosophy. May be counted as credit towards government or philosophy.	51	10:00-11:50	M Th 202B
GUIDANCE (GUID)									
Offered at E. St. Louis. See Bus Sched. on back cover.					B305-4	Educational Psychology	Prereq.: Psyc 201.	51	2:00-3:50
I	11:00-12:50	Tu F	SCI 102						M Th 104
2	9:00-9:50	MTu ThF	SS 21	305-4	Educational Psychology	Prereq.: Psyc 201.	E 52	Offered at Alton. See Bus Sched. on back cover. 6:20-8:10PM	Tu F 105
E 3	8:20-10:10PM	M Th	SCI 102						
E 1	5:30-8:10PM	W	SCI 102	412-4	Mental Hygiene	Prereq.: 305. 4 additional sessions to be arranged. Same as Psyc 432.	E 51	5:30-8:10PM	W 204
E 1	5:30-8:10PM	F	AUD 1	422-4	Educational Measurements I	Prereq.: 305. 4 additional sessions to be arranged.	E 51	5:30-8:10PM	W 215
E 1	5:30-8:10PM	Th	AUD 3	426-4	Individual Inventory	Prereq.: 422 and 442. 4 additional sessions to be arranged.	E 51	5:30-8:10PM	Tu 106
				442-4	Basic Principles of Guidance	Prereq.: 305. 4 additional sessions to be arranged.			
I	Arranged	Arranged	Arranged	501-2 to 6	Special Research Problems	Prereq.: graduate standing and consent of instructor.	51	Arranged	Arranged
S 1	9:00-11:40AM	Saturday	ANA 8	515-4	Psychological Aspects of Education	Prereq.: graduate standing.			
E 1	5:30-8:10PM	Tu	EDA 6	525-4	School Behavior Problems and their Prevention	Prereq.: graduate standing and 412 or consent of instructor.	S 51	9:00-11:40AM	Saturday 202A
				537-4	Counseling Theory and Practice I	Prereq.: graduate standing and 442 or consent of instructor.			
				541-4	Occupational Information and Guidance	Prereq.: graduate standing.	E 51	5:30-8:10PM	M AUD
				562A-4	Child Development in Education	Prereq.: graduate standing and 412 or consent of instructor.	E 51	5:30-8:10PM	F 103
				562B-4	Adolescent Development in Education	Prereq.: graduate standing and 412 or consent of instructor.	E 51	5:30-8:10PM	F 103

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SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
HEALTH EDUCATION (H ED)										
1 E 2	11:00-11:50 6:20-8:10PM	MTuWThF M Th	AUD 5 SCI 300	100-4	Healthful Living	Prereq.: none.	51 ES 52	9:00-9:50 6:20-8:10PM 9:00-10:50AM	MTuWThF W Saturday	113 205 205
1	1:00-2:50	Tu	ANA 8	B334S-4	First Aid	Prereq.: none. Offered once annually and only at Alton.			Offered at Alton. See Bus Sched. on back cover.	
HISTORY (HIST)										
1 2 3 E 4	12:00-12:50 2:00-2:50 3:00-3:50 8:20-9:45PM	M W F MTu Th MTu Th M Th	AUD 2 AUD 1 AUD 2 AUD 2	101-3	Survey of Western Civilization	Prereq.: none. Students may begin freshman history with either 101 or 102.	51 E 52	9:00-9:50 8:20-9:45PM	M W F M Th	212 203 203
1 E 2	9:00-9:50 8:20-9:45PM	M W F Tu F	AUD 5 AUD 2	102-3	Survey of Western Civilization	Prereq.: none.	51 ES 52	2:00-2:50 8:20-9:45PM 11:00-12:25PM	MTu Th W Saturday	212 204 204
1 E 2	1:00-1:50 5:55-8:10PM	MTuWThF M Th	AUD 1 AUD 1	201-5	The United States to 1865	Prereq.: sophomore standing.	51 ES 52	8:00-8:50 5:55-8:10PM 8:35-10:50AM	MTuWThF W Saturday	203 112 112
1	11:00-11:50	MTuWThF	AUD 2	202-5	The United States Since 1865	Prereq.: sophomore standing.	51	11:00-11:50	MTuWThF	203
Offered at E. St. Louis. See Bus Sched. on back cover. Offered at E. St. Louis. See Bus Sched. on back cover.										
1	10:00-10:50	TuW F	AUD 1	411-3	Intellectual History of the United States	Prereq.: 201.				
E 1	6:20-7:45PM	Tu F	AUD 2	420-3 425-3	The French Revolution	Prereq.: freshman survey.				
1	1:00-2:50	Tu F	AUD 2	B428-4	Age of Jackson	Prereq.: 201.	E 51	6:20-7:45PM	M Th	203
1	11:00-12:25	Tu F	AUD 1	B452-3	Historical Research and Thesis Writing	Prereq.: junior or senior standing. Required of all history majors. Special arrangements for evening students. Offered once annually.			Offered at Alton. See Bus Sched. on back cover. Offered at Alton. See Bus Sched. on back cover.	
1	Arranged	Arranged	Arranged	500-4	Seminar	Prereq.: graduate standing. Seminar on the history of the South.				
HUMANITIES (HUM)										
1	8:30-9:50	Tu	LL 21	301-3	Humanities I (Honors Program)	Prereq.: sophomore literature requirement. Undergraduate credit only. Entrance by invitation of Honors Program Committee.	51	1:00-2:30	W	104

INSTRUCTIONAL MATERIALS (IM)

403-4	School Library Functions and Management	<i>Prereq.: none. 4 additional sessions to be arranged.</i>	E 51	5:30-8:10PM	Tu	113
405-4	Library Materials for Children	<i>Prereq.: none. Same as Ed Ed 313.</i>				
417-4	Audio-Visual Methods in Education	<i>Prereq.: Guid 305. 4 additional sessions to be arranged.</i>	S 51	9:00-11:40AM	Saturday	103

JOURNALISM (JRNL)

1	News Writing and Editing I	<i>Prereq.: none. Offered once annually and only at Alton.</i>				Offered at Alton. See Bus Sched. on back cover.
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MANAGEMENT (MGT)

170-4	Introduction to Business Administration	<i>Prereq.: none.</i>	51 E 52 E 53	9:00-9:50 8:20-10:10PM 6:20-8:10PM	MTu ThF M Th Tu F	204 225 104
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271-4	Business Writing	<i>Prereq.: Eng 103.</i>	E 51	6:20-8:10PM	M Th	223
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320-5	Corporation Finance	<i>Prereq.: Acct 253 and Econ 205.</i>	E 51	5:55-8:10PM	Tu F	224
327-4	General Insurance	<i>Prereq.: Acct 253 and Econ 205.</i>	51	10:00-10:50	MTu ThF	225
340-4	Business Organization and Management	<i>Prereq.: junior standing or consent of instructor.</i>	E 51	6:20-8:10PM	M Th	201B

361-3	Business Report Writing		51	3:00-3:50	M ThF	223
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371-4	Business Law I		51	8:00-8:50	MTuWTh	225
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380-4	Production Management	<i>Prereq.: Econ 206.</i>	E 52	8:20-10:10PM	Tu F	225
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385-4	Personnel Management	<i>Prereq.: Econ 206.</i>	E 51	8:20-10:10PM	M Th	202B
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472-4	Small Business	<i>Prereq.: Econ 206.</i>				
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473-4	Business Enterprise and Public Policy	<i>Prereq.: senior standing.</i>	ES 51	8:20-10:10PM 11:00-12:50PM	W Saturday	221 221
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B481-4	Administrative Management	<i>Prereq.: 340.</i>	51	12:00-1:50	Tu F	201A
B485-4	Problems in Personnel Management	<i>Prereq.: 385.</i>				Offered at Alton. See Bus Sched. on back cover.

Prereq.: consent of instructor.

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SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	MARKETING (MKTG)	REMARKS	SECTION	TIME	DAYS	ROOM
MARKETING (MKTG)											
1	9:00-9:50	MTaWThF	SCI 208	230-5	Principles of Marketing	Prereq.: Econ 205 or consent of instructor.	51	E 52	10:00-10:50	MTuWThF	204
E 2	5:55-8:10PM	M Th	ANB 1								
1	1:00-1:50	MTu ThF	ANB 1	331-4	Retailing	Prereq.: 230.	E 51	E 51	6:20-8:10PM	Tu F	204
1	10:00-10:50	MTaWTh	ANB 1								
E 2	8:20-10:10PM	Tu F	ANB 1	334-4	Credits and Collections	Prereq.: 230.	E 51	E 51	6:20-8:10PM	Tu F	204
1	1:00-1:50	MTu ThF	ANB 1								
1	10:00-10:50	MTaWTh	ANB 1	334-4	Credits and Collections	Prereq.: 230.	E 51	E 51	6:20-8:10PM	Tu F	204
E 2	8:20-10:10PM	Tu F	ANB 1								
ES 1	8:20-10:10PM	W	ANB 1	336-3	Purchasing	Prereq.: 230.	E 51	E 51	8:20-9:45PM	M Th	104
1	11:00-12:50PM	Saturday	ANB 1								
Offered at E. St. Louis. See Bus Sched. on back cover.											
1	11:00-12:50	M Th	ANB 2	B384-4	Advertising Media Analysis	Prereq.: 333. Offered once annually and only at East St. Louis.	51	51	2:00-3:50	Tu F	104
1	11:00-12:50	M Th	ANB 2								
Offered at Alton. See Bus Sched. on back cover.											
1	9:00-9:50	MTu ThF	ANA 4	100-0	Elementary Mathematics	Prereq.: none.	51	52	11:00-11:50	MTu ThF	220
ES 2	8:20-10:10PM	W	ANA 4								
1	10:00-11:50AM	Saturday	ANA 4	106-4	General Mathematics I	Prereq.: student will not receive credit for 106 if he has had 3 semesters of high school algebra or any college math.	E 53	51	8:20-10:10PM	Tu F	220
2	9:00-9:50	M W F	SCI 300								
3	9:00-9:50	Tu Th	SCI 209	106-4	General Mathematics I	Prereq.: student will not receive credit for 106 if he has had 3 semesters of high school algebra or any college math.	52	53	1:00-1:50	M W F	113
4	9:00-9:50	M W F	SCI 300								
E 4	8:20-10:10PM	Tu F	ANA 4	111-5	Elementary Analysis I	Prereq.: 106 or 3 semesters of high school algebra and 75 percentile on guidance test.	E 55	52	6:20-8:10PM	M Th	220
1	8:00-8:50	MTaWThF	ANA 4								
2	10:00-10:50	MTaWThF	ANA 4	111-5	Elementary Analysis I	Prereq.: 106 or 3 semesters of high school algebra and 75 percentile on guidance test.	51	52	8:00-8:50	MTuWThF	220
3	11:00-11:50	MTaWThF	ANA 4								
4	2:00-2:50	MTaWThF	SCI 209	111-5	Elementary Analysis I	Prereq.: 106 or 3 semesters of high school algebra and 75 percentile on guidance test.	53	54	12:00-12:50	MTuWThF	220
E 5	8:20-10:35PM	M Th	ANA 4								
E 6	5:55-8:10PM	Tu F	SCI 209	113-5	Calculus and Analytic Geometry I	Prereq.: 112 or 1/2 year of high school trigonometry and 97% on guidance test.	E 55	E 56	8:20-10:35PM	M Th	220
1	11:00-11:50	MTaWThF	SCI 209								
E 2	5:55-8:10PM	M Th	SCI 209	210-4	The Teaching of Elementary Mathematics	Prereq.: 106.	E 51	E 51	5:55-8:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
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E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	8:20-10:10PM	Tu F	205
1	2:00-2:50	MTu ThF	ANA 4								
E 2	8:20-10:10PM	M Th	SCI 209	220-4	Elementary Statistics	Prereq.: 106.	51	E 52	3:00-3:50	MTu ThF	205
1											

[illegible]

MUSIC (MUS)

1	1:00-1:50	MTuWThF	FAB 1	001-1	University Band	Prereq.: open to all University students upon audition.	51	11:00-11:50	M	W	F	AUD
E1	8:15-10:15PM	M	AUD 5	002A-1/2	University Chorus	Prereq.: open to all University students upon audition.	E 51	8:15-10:15PM	Tu			212
1	11:00-11:50	M W F	FAB 1	002C-1	Collegiate Singers	Prereq.: open to all University students upon audition.	51	12:00-12:50	Tu	Th		212
E1	Arranged	Arranged	Arranged	003-1	Orchestra	Prereq.: open by audition. Credit for music majors only.						
1	9:00-9:50	Tu Th	FAC 21	010-1	Class Strings	Prereq.: none. Two quarters or proficiency required of majors. One hour to be arranged.						
1	8:00-8:50	M W F	FAB 1	030-1	Class Percussion	Prereq.: none. Fall quarter only.						
1	8:00-8:50	M W F	FAC 2	040-1	Class Piano	Prereq.: none for majors. Six quarters or proficiency required of majors. Prereq. for non-majors: Music 200 or equivalent.	51	11:00-11:50	M	W	F	212
2	9:00-9:50	M W F	FAC 2			(Mus 200 and 040 may be taken concurrently) <i>Alton: section one for 1st year music majors; section two, 2nd year music majors; section three, non-music majors.</i>						
3	1:00-1:50	M W F	FAC 2			<i>East St. Louis: section fifty-one, non-music majors.</i>						
1	10:00-10:50	M W F	Arranged	060-1	Class Voice	Prereq.: none. Three quarters or proficiency required of music majors.						

Alton Campus

FALL

East St. Louis Campus

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	MUSIC (MUS) (Continued)	REMARKS	SECTION	TIME	DAYS	ROOM
1	12:00-12:50	M W F	AUD 5	100-3	Music Understanding			E 51	6:20-7:45PM	M	Th
1	11:00-11:50	Tu Th	FAC 22	101-2	Introduction to Music Literature and History		<i>Prereq.: none. For general University students. (Music majors should take 101, 102, 103 sequence.)</i>				
1	9:00-9:50	MTuWThF	FAC 22	105-4	Theory of Music		<i>Prereq.: none. Required of all freshman music majors. Fall quarter only.</i> <i>Prereq.: none. 1st quarter of 3-quarter sequence. Fall quarter only.</i>				
1	11:00-11:50	M W F	FAC 21	200-3	Fundamentals of Music		<i>Prereq.: none.</i>				
1	10:00-10:50	MTuWThF	FAC 22	205-4	Theory of Music		<i>Prereq.: 107. Fall quarter only.</i>				
1	9:00-9:50	M W F	FAC 21	301-3	Music Education in the Elementary School		<i>Prereq.: junior standing. Music majors only. Fall quarter only.</i>				
1	3:00-3:50	M	FAC 21	309-2	Orchestration I		<i>Prereq.: 207. Fall quarter only.</i>				
1	10:00-10:50	Th	FAB 27	312-2	Composition I		<i>Prereq.: 103 and 207. One hour of class plus individual conference. Fall quarter only. One hour to be arranged.</i>				
1	9:00-9:50	Tu Th	FAB 1	318-2	Conducting: General		<i>Prereq.: junior standing. Fall quarter only.</i>				
1	2:00-2:50	Tu Th	FAB 1	326-2	Analysis I		<i>Prereq.: 207. To be taken concurrently with 330. Fall quarter only.</i>				
1	2:00-2:50	M W F	FAC 22	330-2	Music History and Literature		<i>Prereq.: 103. To be taken concurrently with 326. Fall quarter only.</i>				
1	10:00-10:50	Tu	FAB 1	345-1	Madrigal Singers		<i>Prereq.: audition.</i>				
1	11:00-11:50	Tu	FAB 21	355-1	Chamber Music—Strings		<i>Prereq.: audition.</i>				
1	8:00-8:50	Tu	FAC 22	365a-1	Chamber Music—Woodwinds		<i>Prereq.: audition.</i>				
2	12:00-12:50	Tu	FAC 22	365b-1	Chamber Music—Woodwinds		<i>Prereq.: audition.</i>				
3	11:00-11:50	Tu	FAB 1	365c-1	Chamber Music—Brass		<i>Prereq.: audition.</i>				
4	11:00-11:50	Th	FAB 1	365d-1	Chamber Music—Brass		<i>Prereq.: audition.</i>				
E 1	5:00-7:30PM	W	FAC 22	411-3	Symphonic Literature		<i>Prereq.: senior standing. Fall quarter only.</i>				
E 1	5:00-6:40PM	Tu	FAC 22	441-2	Sixteenth Century Counterpoint		<i>Prereq.: senior standing. Fall quarter only.</i>				
E 1	5:00-6:40PM	M	FAC 21	451-2	The Teaching of General Classroom Music in the Junior and Senior High School		<i>Prereq.: senior standing. Fall quarter only.</i>				

The following courses in applied music are available for music majors and minors and for others under exceptional conditions. Consult the music adviser at Alton or East St. Louis. Each of these courses has only one section. Times to be arranged.

011-1 to 4	Private Violin	031-1 to 4	Private Percussion	471-2 to 8	Private Piano	474D-2 to 8	Private Bassoon
012-1 to 4	Private Viola	041-1 to 4	Private Piano	472-2 to 8	Private Voice	474E-2 to 8	Private Saxophone
013-1 to 4	Private Violoncello	051-1 to 4	Private French Horn	473A-2 to 8	Private Violin	475A-2 to 8	Private Trumpet
014-1 to 4	Private Double Bass	052-1 to 4	Private Trumpet	473B-2 to 8	Private Viola	475B-2 to 8	Private French Horn
021-1 to 4	Private Flute	053-1 to 4	Private Trombone	473C-2 to 8	Private Violoncello	475C-2 to 8	Private Baritone
022-1 to 4	Private Oboe	054-1 to 4	Private Tuba	473D-2 to 8	Private Double Bass	475D-2 to 8	Private Trombone
023-1 to 4	Private Clarinet	055-1 to 4	Private Baritone	474A-2 to 8	Private Flute	475E-2 to 8	Private Tuba
024-1 to 4	Private Bassoon	061-1 to 4	Private Voice	474B-2 to 8	Private Oboe	476-2 to 8	Private Organ
025-1 to 4	Private Saxophone	071-1 to 4	Private Organ	474C-2 to 8	Private Clarinet		

PHILOSOPHY (PHIL)										
1	10:00-10:50	Tu Th	SS 21	120-2	Practical Logic I	Prereq.: none. No credit for 120 until completion of 121.	51	11:00-11:50	Tu F	112
E 2	6:20-8:10PM	Tu	SS 21							
1	2:00-2:50	MTu ThF	SS 1	200-4	Types of Philosophy: An Introduction	Prereq.: none.	51	9:00-9:50	MTuW F	202A
Offered at E, St. Louis, See Bus Sched. on back cover.										
		MTu ThF		B381-4	Greek and Early Christian Philosophy	Prereq.: junior standing or 4 hours of philosophy. Offered once annually and only at East St. Louis.	51	2:00-3:50	M Th	221
See also Govt 484.										
PHYSICAL EDUCATION—MEN (PEM)										
1	10:00-10:50	F	SS 1	101-1	Orientation in Physical Education	Prereq.: majors and minors only.				
1	11:00-12:50	M W	AUD 4	117-1	Methods and Materials of Teaching Swimming	Prereq.: none. Required for majors and minors in PEM.				
1	10:00-10:50	MTu Th	GYM	151-1	Teaching of Team Games I	Prereq.: majors and minors only.				
1	Arranged	MTuWThF	GYM	171-2	Varsity Basketball	Prereq.: consent of instructor.	51	Arranged	MTuWThF	GYM
1	2:00-2:50	Tu Th	GYM	251-1	Required Physical Education (Fencing)	Prereq.: none. Fee.				
2	11:00-12:50	M W	Arranged		(Swimming)	Prereq.: non-swimmers and beginners only.	51	9:00-9:50	W F	GYM
3	1:00-1:50	Tu Th	GYM		(Soccer and Related Games)	Prereq.: none.	52	1:00-1:50	M W	GYM
4	2:00-2:50	M W	GYM		(Tennis)	Prereq.: none.				
E 5	6:20-8:10PM	W	GYM		(Square Dance)	Prereq.: beginners only.				
6	11:00-11:50	M Th	GYM		(Folk Dance)	Prereq.: none.				
					(Archery)	Prereq.: none.				
1	9:00-10:50	W	Arranged	254-1	(Golf)	Prereq.: none.	53	9:00-9:50	M W	GYM
2	9:00-10:50	F	Arranged		Bowling	Prereq.: none. Fee. Meets University P.E. requirements.	54	1:00-1:50	Tu Th	GYM
1	11:00-11:50	M Th	GYM	262-1	Basic Rhythms II	Prereq.: PEM 152. Majors and minors only.				
1	9:00-9:50	M W F	SS 1	341-3	Principles of Physical Education	Prereq.: majors and minors only.				

FALL

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Alton Campus

FALL

East St. Louis Campus

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
PHYSICAL EDUCATION—MEN (PEM) (Continued)										
E 1	4:20-6:10PM	M Th	ANA 6	350-4	Methods and Materials for Teaching Physical Education in the Elementary School	Prereq.: P.E. majors and El. Ed. majors.	E 51	4:20-6:10PM	M Th	GYM
1	9:00-9:50	Tu Th	SS 1	365-2	Organization and Administration of Community Recreation	Prereq.: majors and minors only.				
1	11:00-11:50 3:00-5:30	Tu Th Tu Th	ANB 21 GYM	384-3	Football	Prereq.: majors and minors only.				
PHYSICAL EDUCATION—WOMEN (PEW)										
1	2:00-2:50	M WTh	GYM	101S-1 107-1	Soccer Fundamental Rhythms	Prereq.: none. Prereq.: none.	51	10:00-11:30	W F	GYM
E 1	6:20-8:10PM	W	GYM	208-1	American Square Dance and Mixers	Prereq.: none.				
1	10:00-10:50	Tu ThF	GYM	214-1	Archery	Prereq.: none.	51	9:00-9:50	M W	GYM
1	3:00-3:50	MTu Th	GYM	223-1	Tennis	Prereq.: none. Meets until November 26.	51	10:00-11:30	M W	GYM
1	11:00-11:50	M Th	GYM	230-1	Field Hockey	Prereq.: none. Meets until November 26.				
1	9:00-10:50	F	Arranged	254-1	Folk Dance	Prereq.: none.				
1	2:00-2:50	Tu Th	GYM	255-1	Rowling	Prereq.: none. Fee.	51	9:00-9:50	W F	GYM
1	8:00-8:50	Tu ThF	ANB 22	322-2	Fencing	Prereq.: none. Fee.				
1	9:00-9:50	Tu	ANB 22		Techniques of Teaching Individual Sports I	Prereq.: PEW majors and minors only.				
E 1	3:00-3:50	MTu	SCI 102	323-1	Officiating Techniques I	Prereq.: none.				
	4:20-6:10PM	M Th	ANA 6	350-4	Methods and Materials for Teaching Physical Education	Prereq.: PEW majors and El. Ed. Majors.	E 51	4:20-6:10PM	M Th	GYM
1	9:00-9:50	M W F	SS 1	354-2	Activities in the Elementary School	Prereq.: PEW majors and El. Ed. Majors.				
PHYSICS (PHYS)										
1	10:00-10:50	MTuWTh	SCI 103	101-4	Principles of Physical Education	Prereq.: PEW majors and El. Ed. Majors.				
2	10:00-10:50	F	SCI 107		Survey of Physics	Prereq.: Math 106 or equivalent.	51	9:00-9:50	MTuWThF	124A
	11:00-11:50	F	SCI 103				E 52	6:00-8:10PM	Tu F	124A
1	9:00-9:50	M W F	SCI 102	211-5	University Physics	Prereq.: Math 113 or concurrent enrollment.	51	2:00-2:50	MTu ThF	124A
	9:00-10:50	Th	SCI 107					2:00-3:50	W	124A

Alton Campus

FALL

East St. Louis Campus

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
SECRETARIAL SCIENCE (SEC SCI) (Continued)										
1	11:00-11:50	MTuWTh	ANA 3	105-4	Shorthand I	Prereq.: none.	51	10:00-10:50	MTu	ThF
E 2	6:20-8:10PM	Tu F	ANA 3	107-4	Shorthand III	Prereq.: 106 or equivalent.	E 52	8:20-10:10PM	M	Th
							E 51	6:20-8:10PM	Tu	F
E 1	8:20-10:10PM	M Th	ANA 3	213-3	Typewriting IV	Prereq.: 104 or equivalent.	E 51	8:20-10:10PM	Tu	F
1	12:00-12:50	MTaWTh	ANA 3	216-4	Shorthand IV	Prereq.: 107 or equivalent.				
E 2	6:20-8:10PM	M Th	ANA 3							
1	10:00-10:50	MTaW F	ANA 3	313-4	Calculating Machines	Prereq.: none.				
E 1	8:20-9:45PM	M Th	ANA 1	403-3	Teaching Typewriting	Prereq.: 213 or equivalent.				
SOCIOLOGY (SOC)										
TV Lec	12:00-12:45	Tu ThF	SCI 208	101-5	Introductory Sociology KETC Channel 9 TV Lecture or KETC Channel 9 TV Lecture	Prereq.: none. Choose one lecture section and one discussion section.	TV Lec	12:00-12:45	Tu	ThF
E TV Lec	6:45-7:30PM	M WTh	SCI 208				E TV Lec	6:45-7:30PM	M	WTh
1	11:00-11:50	W	AUD 1		Discussion		51	12:00-12:50	M	106
2	12:00-12:50	M	AUD 1		Discussion		52	12:00-12:50	M	112
3	12:00-12:50	W	AUD 1		Discussion		53	12:00-12:50	W	106
S 4	11:00-11:50AM	Saturday	AUD 2				E 54	7:20-8:10PM	Tu	112
1	11:00-11:50	MTuWThF	SS 1	102-5	Social Problems	Prereq.: none.	51	1:00-1:50	MTaWThF	225
1	8:00-8:50	MTaW F	SS 1	306-4	Social Control	Prereq.: 101 or consent of instructor.				
Offered at E. St. Louis. See Bus Sched. on back cover.										
				B312-5	Sociological Research	Prereq.: 101 or consent of instructor. Plus laboratory work to be arranged.	51	2:00-3:50	M Th	112
				320-4	Race and Minority Group	Prereq.: 101 or consent of instructor.	51	9:00-9:50	MTaWTh	203
				322-3	Relations Propaganda and Public Opinion	Prereq.: 101 or consent of instructor.	51	10:00-10:50	M WTh	203
E 1	8:20-10:10PM	M Th	SS 1	335-4	Urban Sociology	Prereq.: 101 or consent of instructor.				
				340-4	The Family	Prereq.: 101 or consent of instructor.	E 51	8:20-10:10PM	M Th	221
E 1	8:20-10:10PM	Tu F	SS 1	372-4	Criminology	Prereq.: 101 or consent of instructor.	51	8:00-8:50	MTaWTh	221
Offered at E. St. Louis. See Bus Sched. on back cover.										
				B380-4	Introduction to Social Work	Prereq.: 101 or consent of instructor.	51	12:00-1:50	M Th	224
1	1:00-2:50	Tu F	ANB 22	B383-4	Introduction to Interviewing	Prereq.: 101 or Psychology 201.	Offered at Alton. See Bus Sched. on back cover.			
				383-4	Introduction to Interviewing	Prereq.: 101 or Psychology 201.	E 51	8:20-10:10PM	Tu F	224
SPEECH (SPCH)										
TV Lec	12:00-12:30	M W	SCI 208	101-4	Principles of Speech	Prereq.: none. Lecture demonstration may	TV Lec	12:00-12:30	M W	103

KETC Channel 9, TV Lecture					be viewed in Room S 208 (Alton) or Room 103 (East St. Louis) or on home receivers, KETC, Channel 9, St. Louis. Required for speech majors, elementary and secondary education majors. Also required for associate degree in business.									
E TV Lec	7:30-8:00PM	Tu	Th	SCI 208					E TV Lec	7:30-8:00PM	Tu	Th	103	
1	9:00-9:50	W	F	ANB 2	Discussion				51	10:00-10:50	W	F	106	
2	10:00-10:50	W	F	ANB 21	Discussion				52	11:00-11:50	W	F	106	
3	1:00-1:50	W	F	ANB 2	Discussion				53	1:00-1:50	W	F	106	
4	2:00-2:50	W	F	ANB 2	Discussion				E 54	6:00-7:50PM	W		106	
E 5	6:00-7:50PM	M		ANB 2										
1	11:00-11:50	MTu	ThF	ANA 1	Public Speaking				Prereq.: 101 or consent of instructor. Required for speech majors.					
Offered at E. St. Louis. See Bus Sched. on back cover.					Principles of Discussion				51	10:00-11:25	M	Th	202A	
1	1:00-2:25	M	Th	ANB 22	Principles of Argumentation and Debate				Offered at Alton. See Bus Sched. on back cover.					
1	Arranged	Arranged		ANB 2	Forensic Activities				Prereq.: none.					
1	10:00-10:50	MTu	ThF	ANB 2	Persuasion				Prereq.: Psychology 201 and 12 hours of speech or consent of instructor.					
1	1:00-2:50	Tu	F	ANB 21	Teaching Speech in Secondary Schools				Prereq.: junior standing or consent of instructor.					
1	Arranged	Arranged		Arranged	Readings in Speech				51	Arranged	Arranged		Arranged	
Offered at E. St. Louis. See Bus Sched. on back cover.					THEATER (THEA)									
Offered at E. St. Louis. See Bus Sched. on back cover.					106-4	Introduction to Theater			51	8:00-8:50	MTu	ThF	AUD	
Offered at E. St. Louis. See Bus Sched. on back cover.					B111-3	Staging Techniques			51	2:00-3:25	M	Th	AUD	
Offered at E. St. Louis. See Bus Sched. on back cover.					B208-1	Dramatic Activities			51	12:00-1:50	MTu	ThF	AUD	
Offered at E. St. Louis. See Bus Sched. on back cover.					B308-1	Dramatic Activities			51	12:00-1:50	MTu	ThF	AUD	
Offered at E. St. Louis. See Bus Sched. on back cover.					312-4	Stage Design			51	9:00-9:50	MTu	ThF	AUD	
					ZOOLOGY (ZOO)									
1					100-5	Principles of Animal Biology			51	2:00-2:50	M	W	F	113
2									52	12:00-1:50	M	W	F	116
3									E 53	3:00-4:50	Tu	Th	113	
										6:00-7:15PM	Tu	F	116	
										7:25-9:15PM	Tu	F	116	

Alton Campus

FALL

East St. Louis Campus

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
ZOOLOGY (ZOO) (Continued)										
4	2:00-2:50	M W F	SCI 208							
E 5	2:00-3:50	Tu Th	SCI 205							
	6:00-7:15PM	M Th	SCI 301							
	7:25-9:15PM	M Th	SCI 205							
1	10:00-10:50	Tu Th	SCI 301	202-5	Comparative Anatomy	<i>Prereq.: Zool 103.</i>				
	10:00-11:50	M W F	SCI 205							
1	:00-9:50	Tu Th	SCI 203	321-5	Histological Technique in Zoology	<i>Prereq.: one year of biology.</i>				
1	9:00-10:50	M W F	SCI 203							
1	4:00-4:50	M	SCI 208	382A-1½	Zoology Seminar for Seniors	<i>Prereq.: one year of biology. Required each quarter of seniors majoring in zoology.</i>				
1	3:00-3:50	Tu Th	SCI 103	401-5	Genetics	<i>Prereq.: 12 hours of biology.</i>				
	2:00-3:50	M W F	SCI 203							
1	2:00-2:50	Tu Th	SCI 203	461-4	Mammalogy	<i>Prereq.: Zool 103.</i>				
	2:00-3:50	M W	SCI 205							

Schedule of Classes

Winter Quarter

1962

The following material may be of value in interpreting the information appearing in the class schedule.

- B Course offered only at one campus but scheduled so that students from the other campus may attend by using free bus transportation. See bus schedule on back cover.
- E Evening class.
- ES Evening and Saturday class.
- S Saturday class.

Alton Campus

WINTER

East St. Louis Campus

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
ACCOUNTING (ACCT)										
1	2:00-2:50	MTu ThF	ANA 1	251-4	Elementary Accounting I	Prereq.: sophomore standing.	E 51	6:20-8:10PM	M Th	221
E 2	8:20-10:10PM	Tu F	ANA 1							
1	8:00-8:50	MTu ThF	ANA 1	252-4	Elementary Accounting II	Prereq.: 251.	51	10:00-10:50	MTu ThF	221
2	10:00-10:50	MTu ThF	ANA 1					E 52	8:20-10:10PM	M Th
E 3	6:20-8:10PM	M Th	ANA 1				E 53	6:20-8:10PM	Tu F	221
E 4	6:20-8:10PM	Tu F	ANA 1							
1	12:00-12:50	MTuWThF	ANA 1	331-5	Tax Accounting	Prereq.: 253.	E 51	5:55-8:10PM	Tu F	224
E 1	6:20-7:45PM	Tu F	ANA 2			Cost Accounting	Prereq.: 253.			
Offered at E. St. Louis. See Bus Sched. on back cover.										
1	9:00-9:50	MTuWTh	ANA 1	B341-3 352-4	Cost Accounting	Prereq.: 253.	51	12:00-1:25	Tu F	221
E 2	8:20-10:10PM	M Th	ANA 1			Advanced Accounting II	Prereq.: 351.	E 52	2:00-2:50	MTu ThF
				356-5	Auditing	Prereq.: 353 or consent of instructor.	E 51	8:20-10:10PM	M Th	224
E 1	6:20-8:10PM	M Th	ANA 2	432-4	Problems in Federal Taxation	Prereq.: 331.	Offered at Alton. See Bus Sched. on back cover.			
1	11:00-12:50	M Th	ANA 2			Cost Accounting				
1	Arranged	Arranged	Arranged	459-4	Internship in Accounting	Prereq.: outstanding record in accounting and recommendation of the committee on internship.	51	Arranged	Arranged	Arranged
ANTHROPOLOGY (ANTH)										
E 1	6:20-8:10PM	M Th	SS 1	300-4	Man's Place in Nature	Prereq.: none.	Offered at Alton. See Bus Sched. on back cover.			
1	11:00-12:50	Tu F	SS 21			Man and Culture				
1	8:00-8:50	MTuWTh	SS 1	B310-4 314-4	Indians of North America	Prereq.: none.				
APPLIED SCIENCE (AP SCI)										
1	12:00-1:50	MTu F	ANA 7	205-3	Engineering Drawing II	Prereq.: 101.	51	2:00-4:50	M Th	215
2	3:00-4:50	MTu F	ANA 7					E 52	6:20-9:10PM	M Th
E 3	6:20-9:10PM	Tu F	ANA 7							
E 1	6:20-7:45PM	Tu F	ANB 22	261-3	Analytical Mechanics (Dynamics I)	Prereq.: 260.	E 51	8:20-9:45PM	M Th	202A
ART (ART)										
1	2:00-3:50	MTu ThF	FAA 2	100-5	Basic Studio	Prereq.: none. 15 hours 100 to all studio courses other than 300.	51	10:00-11:50	MTu ThF	214
E 2	2:00-2:50	W							10:00-10:50	W
2	6:20-9:50PM	M Th	FAA 2							

1	9:00-9:50	M	ThF	FAA 4	120-3	Art Appreciation	Prereq.: none. Satisfies general University requirement.	51	9:00-9:50	M	W	F	215
2	11:00-11:50	M	ThF	FAA 4				52	2:00-2:50	M	W	F	221
E 3	6:20-7:45pm	Tu	F	FAA 4				E 53	6:20-7:45pm	M	Th		104
1	2:00-3:50	MTu	ThF	FAA 3	203-4	Beginning Ceramics	Prereq.: 15 hours of 100.						
1	11:00-12:50	MTuWTh		FAA 21	245-4	Figure	Prereq.: 15 hours of 100.						
1	2:00-3:50	MTu	ThF	Alby St. Stu.	250-4	Oil Painting	Prereq.: 12 hours of 245 or consent of instructor.						
1	9:00-10:50	M	W	F	300-4	Art Education	For elementary education majors and art education majors. Student may elect up to 12 hours. (At East St. Louis, students who have previously earned 4 hours credit in this course, and desire additional credit, should enroll in the winter quarter only.)	51	1:00-2:50	M	W	F	214
E 1	6:20-9:00pm	Tu	F	FAA 3	302-4	Beginning and Advanced Ceramics	Prereq.: 203 or consent of instructor.						
1	2:00-3:50	MTu	ThF	Alby St. Stu.	320-4	Advanced Painting	Prereq.: 12 hours of 250 or consent of instructor.						
1	Arranged	Arranged	Arranged	Arranged	325-4	Studio	Prereq.: consent of instructor.						
E 1	6:20-8:10pm	M	Th	FAA 4	327-4	History of World Art, II	Prereq.: 326 or consent of instructor.	51	Arranged	Arranged	Arranged	Arranged	
1	9:00-10:50	MTu	ThF	Alby St. Stu.	358-4	Prints	Prereq.: 245 and 250 or consent of instructor.						
1	12:00-1:50	M	W	F	365-4	Art Education in the Secondary Schools	Prereq.: art majors and minors. Required for majors in art education. Offered winter quarters only.						
1	Arranged	Arranged	Arranged	Arranged	401-4	Research in Painting	Prereq.: consent of instructor.						
1	Arranged	Arranged	Arranged	Arranged	410-4	Research in Prints	Prereq.: consent of instructor.						
E 1	6:00-7:15pm	Tu	F	SCI 203	101-5	General Botany	Prereq.: none.	E 51	6:00-7:15pm	M	Th		116
	7:25-9:15pm	Tu	F	SCI 205									116
1	11:00-11:50	M	W	F	202-5	General Botany	Prereq.: none.	51	2:00-2:50	M	W	F	112
	10:00-11:50	Tu	Th	SCI 300									116
2	11:00-11:50	M	W	F	SCI 300			52	2:00-2:50	M	W	F	112
	12:00-1:50	W	F	SCI 205							Tu	Th	116
1	10:00-10:50	MTu	Th	SCI 300	101-4	General Chemistry	Prereq.: none.	51	2:00-2:50	M	W	F	204
	8:00-10:50	W		SCI 306							Tu	Th	125
2	10:00-10:50	MTu	Th	SCI 300				52	2:00-2:50	M	W	F	204
E 3	8:00-10:50	F		SCI 306									125
	6:00-7:15pm	M	Th	SCI 300									
	7:25-10:15pm	M	Th	SCI 306									
E 4	6:00-7:15pm	M	Th	SCI 300									
	7:25-10:15pm	M	Th	SCI 306									

WINTER

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
CHEMISTRY (CHEM) (Continued)										
1	12:00-12:50 12:00-12:50 12:00-2:50	M W F Th Tu	SCI 300 SCI 300 SCI 306	111-5	Chemical Principles and Inorganic Chemistry	Prereq.: none.	E 51	8:20-9:50PM 6:10-8:00PM	M Th M Th	105 125
1	8:00-8:50 8:00-8:50 8:00-10:50	M W F Th Tu	SCI 300 SCI 301 SCI 306	112-5	Chemical Principles and Inorganic Chemistry	Prereq.: 111.	51	8:00-8:50 10:00-11:50	MTu ThF M W	204 125
2	8:00-8:50 8:00-8:50 8:00-10:50	M W F Tu Th	SCI 300 SCI 301 SCI 306				52	8:00-8:50 2:00-3:50	MTu ThF M W	204 125
3	8:00-10:50 12:00-12:50 12:00-2:50	M W F M W	SCI 300 SCI 301 SCI 306				53	8:00-8:50 2:00-3:50	MTu ThF Tu Th	204 125
							54	12:00-12:50 10:00-11:50	MTu ThF M W	113 125
							55	12:00-12:50 2:00-3:50	MTu ThF M W	113 125
							56	12:00-12:50 2:00-3:50	MTu ThF Tu Th	113 125
1	3:00-3:50 1:00-3:50	M F Th	SCI 301 SCI 307	331-3	Introductory Quantitative Analysis	Prereq.: 221.	E 51	6:00-7:00PM Lab. to be arranged.	M Th	202B
E 1	6:00-7:15PM 7:25-10:15PM	Tu F Tu F	SCI 300 SCI 307	342-5	Organic Chemistry	Prereq.: 341.	51	10:00-10:50 1:00-3:50	M W F M W	205 123
E 1	7:00-7:50PM	W	SCI 301	375-0 to 1	Senior Seminar	Prereq.: senior with major in chemistry.	51	10:00-10:50 1:00-3:50 Arranged	M W F Tu Th Arranged	205 123 Arranged
E 1	6:00-6:50PM 7:00-9:50PM	M Th M Th	SCI 303 SCI 303	432-4	Instrumental Analytical Techniques	Prereq.: 331 and 461.				
1	11:00-11:50	M W F	SCI 301	462-4	Physical Chemistry	Prereq.: 461.	E 51	6:00-7:30PM	M Th	202A
1	1:00-3:50 1:00-2:50	Th M	SCI 303 SCI 301	B490-2	Chemical Literature	Prereq.: 331 and 343 and reading knowledge of German, or consent of instructor.	Offered at Alton. See Bus Sched. on back cover.			
ECONOMICS (ECON)										
1	10:00-10:50	MTuWThF	SCI 208	205-5	Survey of Economic Principles	Prereq.: sophomore standing.	51	1:00-1:50	MTuWThF	113
E 2	5:55-8:10PM	M Th	ANA 6				E 52	5:55-8:10PM	M Th	105
E 1	8:20-10:10PM	M Th	ANA 2	206-4	Economic Principles and Problems	Prereq.: 205.	51	8:00-8:50	MTuW F	221

1	9:00-9:50	MTuWThF	ANA 6	307-4	Economic and Business Statistics	<i>Prereq.: 205. Math 106 recommended.</i>	51	9:00-9:50	MTuWThF	112
E 1	8:20-10:10PM	Tu F	ANA 6	310-4	Labor Problems	<i>Prereq.: 206, or 205 and consent of instructor.</i>	51	1:00-1:50	M WThF	103
1	12:00-12:50	MTu ThF	ANA 6	315-4	Money and Banking I	<i>Prereq.: 205.</i>	E 51	6:20-8:10PM	Tu F	104
1	10:00-10:50	MTu ThF	ANA 6	328-4	International Economics I	<i>Prereq.: 206, or 205 and consent of instructor.</i>				
1	1:00-2:50	M Th	ANA 6	B416-4	Money and Banking II	<i>Prereq.: 315 or consent of instructor.</i>				
Offered at E. St. Louis. See Bus Sched. on back cover.				B432-3	Fiscal Policy of the United States	<i>Prereq.: 206, or 205 and consent of instructor.</i>	51	2:00-3:25	Tu F	202B
1	11:00-12:25	M Th	ANB 22	B440-3	Intermediate Theory	<i>Prereq.: 206, or 205 and consent of instructor.</i>				
Offered at E. St. Louis. See Bus Sched. on back cover.				B450-3	History of Economic Thought	<i>Prereq.: 206, or 205 and consent of instructor.</i>	51	10:00-11:25	Tu F	202B
				470-3	Business Cycles	<i>Prereq.: 315 or consent of instructor.</i>	E 51	5:30-8:10PM	W	201A
EDUCATIONAL ADMINISTRATION (ED AD)										
				331-3	The American Educational Systems	<i>Prereq.: none.</i>	E 51	5:30-8:10PM	Th	204
1	11:00-12:25	Tu F	ANA 2	B331-3	The American Educational Systems	<i>Prereq.: none.</i>				
Offered at E. St. Louis. See Bus Sched. on back cover.				B355-4	Philosophy of Education	<i>Prereq.: none.</i>	52	10:00-11:25	M Th	112
1	1:00-2:50	Tu F	ANA 6	B355-4	Philosophy of Education	<i>Prereq.: none.</i>				
E 2	4:20-6:10PM	Tu F	ANB 1	424-4	School Administration	<i>Prereq.: none. 4 additional sessions to be arranged.</i>	E 51	8:20-10:10PM	Tu F	105
							S 51	9:00-11:40AM	Saturday	224
E 1	5:30-8:10PM	W	ANB 1	500-4	Research Methods	<i>Prereq.: graduate standing. Guid 422 recommended.</i>				
				534-4	School Finance	<i>Prereq.: graduate standing and 424, or consent of instructor.</i>	E 51	5:30-8:10PM	Tu	202A
				554-4	Contrasting Philosophies of Education	<i>Prereq.: graduate standing.</i>	E 51	5:30-8:10PM	M	204
E 1	5:30-8:10PM	M	AUD 4	563-4	Workshop in School Public Relations	<i>Prereq.: graduate standing.</i>				
1	Arranged	Arranged	Arranged	575-2 to 4	Individual Research	<i>Prereq.: graduate standing and consent of instructor.</i>	51	Arranged	Arranged	Arranged
EDUCATION ELEMENTARY (ED EL)										
Offered at E. St. Louis. See Bus Sched. on back cover.				313-4	Children's Literature	<i>Prereq.: none. Same as IM 405.</i>	E 51	4:20-6:10PM	M Th	221
E 1	6:20-8:10PM	M Th	SCI 301	B314-4	Elementary School Methods	<i>Prereq.: Guid 305.</i>	51	12:00-1:50	M Th	105
1	1:00-2:50	Tu F	SCI 102	B337-4	Reading in the Elementary Schools	<i>Prereq.: Guid 305.</i>				
						<i>Prereq.: 314 or 316, and Guid 305.</i>				
						<i>Offered at Alton. See Bus Sched. on back cover.</i>				

WINTER

Alton Campus

WINTER

East St. Louis Campus

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	EDUCATION ELEMENTARY (ED EL) (Continued)	REMARKS	SECTION	TIME	DAYS	ROOM
EDUCATION ELEMENTARY (ED EL) (Continued)											
				337-4	Reading in the Elementary Schools	Reading in the Elementary Schools	<i>Prereq.: 314 or 316, and Guid 305.</i>	E 51	4:20-6:10PM	Tu F	105
1	Arranged	Arranged	Arranged			350D-8 to 12 Kindergarten-Primary Student Teaching	<i>Prereq.: must apply to education division two quarters in advance.</i>	51	Arranged	Arranged	Arranged
1	Arranged	Arranged	Arranged			350E-4 to 8 Advanced Kindergarten-Primary Student Teaching	<i>Prereq.: 350D.</i>	51	Arranged	Arranged	Arranged
1	Arranged	Arranged	Arranged			351D-8 to 12 Elementary Student Teaching	<i>Prereq.: must apply to education division two quarters in advance.</i>	51	Arranged	Arranged	Arranged
1	Arranged	Arranged	Arranged			351E-4 to 8 Advanced Elementary Student Teaching	<i>Prereq.: 351D.</i>	51	Arranged	Arranged	Arranged
E 1	5:30-8:10PM	Th	SCI 102	415-4	Improvement of Instruction in Arithmetic in Elementary School	Improvement of Instruction in Arithmetic in Elementary School	<i>Prereq.: Math 210 or consent of instructor. 4 additional sessions to be arranged.</i>				
E 1	5:30-8:10PM	Tu	ANA 8	437-4	Problems in Reading	Problems in Reading	<i>Prereq.: 337. 4 additional sessions to be arranged.</i>	S 51	9:00-11:40AM	Saturday	201A
E 1	5:30-8:10PM	W	ANA 2	442-4	Materials and Methods in Elementary School Science	Materials and Methods in Elementary School Science	<i>Prereq.: none. 4 additional sessions to be arranged.</i>				
				461-4	The Elementary School Curriculum	The Elementary School Curriculum	<i>Prereq.: none. 4 additional sessions to be arranged. Not open to students who have had Ed Ad 460.</i>				
S 1	9:00-11:40AM	Saturday	ANB 1	505-4	Improvement of Reading Instruction	Improvement of Reading Instruction	<i>Prereq.: graduate standing. Not for students who have had 337 or 437.</i>				
1	Arranged	Arranged	Arranged	507-2 to 4	Readings in Reading	Readings in Reading	<i>Prereq.: graduate standing. Consent of instructor.</i>	51	Arranged	Arranged	Arranged
				541-4	Selected Teaching and Curriculum Problems in Elementary School Science	Selected Teaching and Curriculum Problems in Elementary School Science	<i>Prereq.: graduate standing. Credit for 442 or 541, not both.</i>	E 51	5:30-8:10PM	Th	212
				543-4	Teaching the Social Studies in the Elementary School	Teaching the Social Studies in the Elementary School	<i>Prereq.: graduate standing.</i>	E 51	5:30-8:10PM	W	224
1	Arranged	Arranged	Arranged	575-2 to 4	Individual Research	Individual Research	<i>Prereq.: graduate standing and consent of instructor.</i>	51	Arranged	Arranged	Arranged
EDUCATION INDUSTRIAL (ED I)											
				494-3	Organization and Administration of Industrial Education	Organization and Administration of Industrial Education	<i>Prereq.: none.</i>	E 51	5:30-8:10PM	W	202A

EDUCATION SECONDARY (ED SEC)

ES 1	6:20-8:10PM 9:00-10:50AM Arranged	W Saturday Arranged	ANB 21 ANB 21 Arranged	315-4 352D-8 to 12 352E-4 to 8	High School Methods Secondary Student Teaching Secondary Student Teaching	Prereq.: Guid 305. Prereq.: must apply to education division two quarters in advance. Prereq.: 352D. Must apply to education division two quarters in advance.	E 51 51 51	4:20-6:10PM Arranged Arranged	M Arranged Arranged	Th Arranged Arranged	220 Arranged Arranged
1	Arranged	Arranged	Arranged	470-4 488-4	Extra-Class Activities Teaching the Social Studies in the Secondary School	Prereq.: none. 4 additional sessions to be arranged. Prereq.: 315 or consent of instructor. 4 additional sessions to be arranged.	S 51 E 51	9:00-11:40AM 5:30-8:10PM	Saturday W	Saturday W	221 221
S 1	9:00-11:40AM	Saturday	ANB 1	505-4	Improvement of Reading Instruction	Prereq.: graduate standing.					
E 1	5:30-8:10PM	Tu	AUD 2	550-4	Core Curriculum in the Secondary School	Prereq.: graduate standing.					
E 1	5:30-8:10PM	M	AUD 3	564-4	High School Principalship	Prereq.: Ed Ad 424 or consent of instructor.					
1	Arranged	Arranged	Arranged	575-2 to 4	Individual Research	Prereq.: graduate standing and consent of instructor.	51	Arranged	Arranged	Arranged	Arranged

EDUCATION SPECIAL (ED SP)

			Ed EI	351D-8	Elementary Student Teaching	Prereq.: consent of instructor. Application two quarters in advance. Must be taken with Ed Sp 420.	51	Arranged	Arranged	Arranged	Arranged
E 1	5:30-8:10PM	W	SCI 102	410-4 412-4	Problems and Characteristics of the Mentally Retarded Education of Gifted Children	Prereq.: Guid 305 or Psych 301 or 303. 4 additional sessions to be arranged. Prereq.: Guid 305 or Psych 301 or 303. 4 additional sessions to be arranged.	E 51	5:30-8:10PM	M		212
E 1	5:30-8:10PM	W	SCI 102	413-4 420-4	Directed Observation of Exceptional Children Methods and Materials of Teaching Exceptional Children	Prereq.: consent of instructor. Must be taken with 410. 4 additional sessions to be arranged. Prereq.: 410. Must be taken with 351D. 4 additional sessions to be arranged.	E 51	5:30-8:10PM	Tu		204

ENGLISH (ENG)

1B 2B 3B E 4B ES 5B	8:00-8:50 9:00-9:50 1:00-1:50 8:20-10:10PM 8:20-10:10PM 11:00-12:50PM	MTu MTu MTu M W Saturday	AUD 1 AUD 4 AUD 4 AUD 4 AUD 1 AUD 1	101-3	Composition	Prereq.: none.	51B 52B 53B E 54B ES 55B	8:00-8:50 9:00-9:50 12:00-12:50 8:20-10:10PM 6:20-8:10PM 9:00-10:50AM	MTu MTu MTu M W Saturday	ThF ThF ThF Th W Saturday	211 211 211 211 211 211
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WINTER

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	ENGLISH (ENG) (Continued)	REMARKS	SECTION	TIME	DAYS	ROOM
Composition											
1A	11:00-11:50	MTu F	AUD 2	102-3		Prereq.: 101.		51A	11:00-11:50	M W F	211
2A	2:00-2:50	MTu F	ANB 1					52B	8:00-8:50	MTu ThF	201B
3B	8:00-8:50	MTu ThF	AUD 3					53B	9:00-9:50	MTu ThF	201B
4B	9:00-9:50	MTu ThF	ANB 1					54B	10:00-10:50	MTu ThF	211
5B	9:00-9:50	MTu ThF	AUD 3					55B	11:00-11:50	MTu ThF	201B
6B	10:00-10:50	MTu ThF	AUD 1					56B	12:00-12:50	MTu ThF	201B
7B	10:00-10:50	MTu ThF	AUD 3					57B	1:00-1:50	MTu ThF	201B
8B	11:00-11:50	MTu ThF	AUD 3					58B	2:00-2:50	MTu ThF	201B
9B	12:00-12:50	MTu ThF	AUD 1					59B	3:00-3:50	MTu ThF	201B
10B	1:00-1:50	MTu ThF	SCI 209					60B	6:20-8:10PM	M Th	201B
11B	1:00-1:50	MTu ThF	AUD 3					61B	8:20-10:10PM	M Th	201B
12B	2:00-2:50	MTu ThF	AUD 3					62B	8:20-10:10PM	M Th	201A
13B	3:00-3:50	MTu ThF	AUD 1					63B	6:20-8:10PM	Tu F	211
14B	3:00-3:50	MTu ThF	AUD 3					64B	8:20-10:10PM	Tu F	211
E15B	6:20-8:10PM	M Th	AUD 1								
E16B	8:20-10:10PM	M Th	AUD 1								
E17B	8:20-10:10PM	M Th	AUD 3								
E18B	6:20-8:10PM	Tu F	AUD 3								
1B	12:00-12:50	MTu ThF	AUD 3	103-3	Composition	Prereq.: 102.		51B	1:00-1:50	MTu ThF	211
ES 2B	6:20-8:10PM	W	AUD 3					ES 52B	8:20-10:10PM	W	211
	9:00-10:50AM	Saturday	AUD 3						11:00-12:50PM	Saturday	211
Introduction to Poetry											
E1	6:20-7:45PM	M Th	AUD 5	205-3	Introduction to Poetry	Prereq.: 103 or equivalent.		E 51	6:20-7:45PM	M Th	113
1	2:00-2:50	M W F	AUD 5	209-3	Introduction to World Literature	Prereq.: 103 or equivalent.		51	2:00-2:50	M W F	113
Introduction to Fiction											
Introduction to Modern Literature											
Principles of English Grammar											
1	3:00-3:50	MTu ThF	AUD 4	300-4	Principles of English Grammar	Prereq.: sophomore literature requirement.		E 51	8:20-10:10PM	M Th	112
1	10:00-10:50	MTu ThF	ANB 1	309-4	American Literature to 1860	Prereq.: sophomore literature requirement.		51	11:00-11:50	MTu ThF	202A
E 2	6:20-8:10PM	Tu F	AUD 4					51	10:00-10:50	MTu ThF	201B
1	9:00-9:50	MTu ThF	ANA 8	316-4	English Literature, 1550-1750	Prereq.: sophomore literature requirement.		E 52	6:20-8:10PM	M Th	211
1	1:00-2:50	Tu F	ANA 8	B320-4	Early Nineteenth Century Poetry	Prereq.: sophomore literature requirement.		Offered at Alton. See Bus Sched. on back cover.			
Restoration and 18th Century Drama											
Shakespeare (Comedies and Histories)											
1	11:00-12:50	Tu F	ANB 1	B361-4	Restoration and 18th Century Drama	Offered once annually and only at Alton.		51	12:00-1:50	M Th	202A
Prereq.: sophomore literature requirement.											
Offered once annually and only at East St. Louis.											
Prereq.: sophomore literature requirement.											

L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	L20	L21	L22	L23	L24	L25	L26	L27	L28	L29	L30	L31	L32	L33	L34	L35	L36	L37	L38	L39	L40	L41	L42	L43	L44	L45	L46	L47	L48	L49	L50	L51	L52	L53	L54	L55	L56	L57	L58	L59	L60	L61	L62	L63	L64	L65	L66	L67	L68	L69	L70	L71	L72	L73	L74	L75	L76	L77	L78	L79	L80	L81	L82	L83	L84	L85	L86	L87	L88	L89	L90	L91	L92	L93	L94	L95	L96	L97	L98	L99	L100	L101	L102	L103	L104	L105	L106	L107	L108	L109	L110	L111	L112	L113	L114	L115	L116	L117	L118	L119	L120	L121	L122	L123	L124	L125	L126	L127	L128	L129	L130	L131	L132	L133	L134	L135	L136	L137	L138	L139	L140	L141	L142	L143	L144	L145	L146	L147	L148	L149	L150	L151	L152	L153	L154	L155	L156	L157	L158	L159	L160	L161	L162	L163	L164	L165	L166	L167	L168	L169	L170	L171	L172	L173	L174	L175	L176	L177	L178	L179	L180	L181	L182	L183	L184	L185	L186	L187	L188	L189	L190	L191	L192	L193	L194	L195	L196	L197	L198	L199	L200	L201	L202	L203	L204	L205	L206	L207	L208	L209	L210	L211	L212	L213	L214	L215	L216	L217	L218	L219	L220	L221	L222	L223	L224	L225	L226	L227	L228	L229	L230	L231	L232	L233	L234	L235	L236	L237	L238	L239	L240	L241	L242	L243	L244	L245	L246	L247	L248	L249	L250	L251	L252	L253	L254	L255	L256	L257	L258	L259	L260	L261	L262	L263	L264	L265	L266	L267	L268	L269	L270	L271	L272	L273	L274	L275	L276	L277	L278	L279	L280	L281	L282	L283	L284	L285	L286	L287	L288	L289	L290	L291	L292	L293	L294	L295	L296	L297	L298	L299	L300	L301	L302	L303	L304	L305	L306	L307	L308	L309	L310	L311	L312	L313	L314	L315	L316	L317	L318	L319	L320	L321	L322	L323	L324	L325	L326	L327	L328	L329	L330	L331	L332	L333	L334	L335	L336	L337	L338	L339	L340	L341	L342	L343	L344	L345	L346	L347	L348	L349	L350	L351	L352	L353	L354	L355	L356	L357	L358	L359	L360	L361	L362	L363	L364	L365	L366	L367	L368	L369	L370	L371	L372	L373	L374	L375	L376	L377	L378	L379	L380	L381	L382	L383	L384	L385	L386	L387	L388	L389	L390	L391	L392	L393	L394	L395	L396	L397	L398	L399	L400	L401	L402	L403	L404	L405	L406	L407	L408	L409	L410	L411	L412	L413	L414	L415	L416	L417	L418	L419	L420	L421	L422	L423	L424	L425	L426	L427	L428	L429	L430	L431	L432	L433	L434	L435	L436	L437	L438	L439	L440	L441	L442	L443	L444	L445	L446	L447	L448	L449	L450	L451	L452	L453	L454	L455	L456	L457	L458	L459	L460	L461	L462	L463	L464	L465	L466	L467	L468	L469	L470	L471	L472	L473	L474	L475	L476	L477	L478	L479	L480	L481	L482	L483	L484	L485	L486	L487	L488	L489	L490	L491	L492	L493	L494	L495	L496	L497	L498	L499	L500	L501	L502	L503	L504	L505	L506	L507	L508	L509	L510	L511	L512	L513	L514	L515	L516	L517	L518	L519	L520	L521	L522	L523	L524	L525	L526	L527	L528	L529	L530	L531	L532	L533	L534	L535	L536	L537	L538	L539	L540	L541	L542	L543	L544	L545	L546	L547	L548	L549	L550	L551	L552	L553	L554	L555	L556	L557	L558	L559	L560	L561	L562	L563	L564	L565	L566	L567	L568	L569	L570	L571	L572	L573	L574	L575	L576	L577	L578	L579	L580	L581	L582	L583	L584	L585	L586	L587	L588	L589	L590	L591	L592	L593	L594	L595	L596	L597	L598	L599	L600	L601	L602	L603	L604	L605	L606	L607	L608	L609	L610	L611	L612	L613	L614	L615	L616	L617	L618	L619	L620	L621	L622	L623	L624	L625	L626	L627	L628	L629	L630	L631	L632	L633	L634	L635	L636	L637	L638	L639	L640	L641	L642	L643	L644	L645	L646	L647	L648	L649	L650	L651	L652	L653	L654	L655	L656	L657	L658	L659	L660	L661	L662	L663	L664	L665	L666	L667	L668	L669	L670	L671	L672	L673	L674	L675	L676	L677	L678	L679	L680	L681	L682	L683	L684	L685	L686	L687	L688	L689	L690	L691	L692	L693	L694	L695	L696	L697	L698	L699	L700	L701	L702	L703	L704	L705	L706	L707	L708	L709	L710	L711	L712	L713	L714	L715	L716	L717	L718	L719	L720	L721	L722	L723	L724	L725	L726	L727	L728	L729	L730	L731	L732	L733	L734	L735	L736	L737	L738	L739	L740	L741	L742	L743	L744	L745	L746	L747	L748	L749	L750	L751	L752	L753	L754	L755	L756	L757	L758	L759	L760	L761	L762	L763	L764	L765	L766	L767	L768	L769	L770	L771	L772	L773	L774	L775	L776	L777	L778	L779	L780	L781	L782	L783	L784	L785	L786	L787	L788	L789	L790	L791	L792	L793	L794	L795	L796	L797	L798	L799	L800	L801	L802	L803	L804	L805	L806	L807	L808	L809	L810	L811	L812	L813	L814	L815	L816	L817	L818	L819	L820	L821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832	L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868	L869	L870	L871	L872	L873	L874	L875	L876	L877	L878	L879	L880	L881	L882	L883	L884	L885	L886	L887	L888	L889	L890	L891	L892	L893	L894	L895	L896	L897	L898	L899	L900	L901	L902	L903	L904	L905	L906	L907	L908	L909	L910	L911	L912	L913	L914	L915	L916	L917	L918	L919	L920	L921	L922	L923	L924	L925	L926	L927	L928	L929	L930	L931	L932	L933	L934	L935	L936	L937	L938	L939	L940	L941	L942	L943	L944	L945	L946	L947	L948	L949	L950	L951	L952	L953	L954	L955	L956	L957	L958	L959	L960	L961	L962	L963	L964	L965	L966	L967	L968	L969	L970	L971	L972	L973	L974	L975	L976	L977	L978	L979	L980	L981	L982	L983	L984	L985	L986	L987	L988	L989	L990	L991	L992	L993	L994	L995	L996	L997	L998	L999	L1000	L1001	L1002	L1003	L1004	L1005	L1006	L1007	L1008	L1009	L1010	L1011	L1012	L1013	L1014	L1015	L1016	L1017	L1018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SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
GEOGRAPHY (GEOG)										
1	8:00-8:50	MTuWTh	AUD 5	100-5	Cultural Geography	<i>Prereq.: none.</i>	51	10:00-10:50	M W F	113
	8:00-8:50	F	SS 1					8:00-8:50	Tu Th	222
2	8:00-8:50	MTuWTh	AUD 5				52	10:00-10:50	M W F	113
	8:00-8:50	F	ANA 5					9:00-9:50	Tu Th	212
3	8:00-8:50	MTuWTh	AUD 5				53	10:00-10:50	M W F	113
	9:00-9:50	F	SS 1					10:00-10:50	Tu Th	222
4	1:00-1:50	MTuW F	AUD 5				54	10:00-10:50	M W F	113
	1:00-1:50	Th	SS 1					10:00-10:50	Tu Th	212
5	1:00-1:50	MTuW F	AUD 5				E 55	5:55-8:10PM	Tu F	222
E 6	5:55-8:10PM	M Th	SS 21							
1	12:00-12:50	MTuWThF	ANA 5	101-5	Physical Geography	<i>Prereq.: none. Natural science credit for education majors.</i>				
1	11:00-11:50	MTuWThF	ANA 5	211-5	Economic Geography	<i>Prereq.: none. Required for business majors.</i>	51	9:00-9:50	MTuWThF	222
1	9:00-10:50	Tu F	ANA 5	311-4	Geography of Soils	<i>Prereq.: none. Natural science credit for education majors.</i>	51	12:00-12:50	MTuWTh	222
1	11:00-11:50	TuW F	SS 1	B312-4	Regional Climatology	<i>Prereq.: none. Natural science credit for education majors. Offered once annually.</i>	Offered at Alton. See Bus Sched. on back cover.			
1	11:00-11:50	TuW F	SS 1	313-3	Geography of Illinois	<i>Prereq.: none. Natural science credit for education majors.</i>	51	1:00-1:50	M WTh	222
				314-4	Geography of Anglo-America	<i>Prereq.: none. Natural science credit for education majors.</i>	51	11:00-11:50	MTuWTh	222
				324-4	Restoration and Conservation of Natural Resources	<i>Prereq.: none. Natural science credit for education majors.</i>	ES 51	6:20-8:10PM	W	222
ES 1	6:20-8:10PM	W	ANA 5	402-4	The Soviet Union	<i>Prereq.: 101 or consent of instructor.</i>	9:00-10:50AM Saturday			
1	9:00-10:50AM	Saturday	ANA 5	405-4	Advanced Economic Geography II (Industrial)	<i>Natural science credit for education majors.</i>				
	Arranged	Arranged	Arranged	413-4	Geography of the Caribbean Lands	<i>Prereq.: 211 or consent of instructor.</i>				
				B416-4	Cartography	<i>Prereq.: 100. Natural science credit for education majors.</i>	ES 51	8:20-10:10PM	W	222
						<i>Prereq.: 212 or consent of instructor.</i>	51	11:00-12:50PM	Saturday	222
						<i>Natural science credit for education majors.</i>		2:00-3:50	M Th	222
						<i>Offered once annually and only at East St. Louis.</i>				
GOVERNMENT (GOV)										
1	9:00-9:50	MTuWThF	ANA 4	190-5	American Government	<i>Prereq.: none.</i>	51	1:00-1:50	MTuWThF	212

Offered at E. St. Louis. See Bus Sched. on back cover.

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SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
HEALTH EDUCATION (H ED)										
1 E 2	9:00-9:50 4:20-6:10PM	MTuWThF M Th	AUD 5 AUD 5	100-4	Healthful Living	Prereq.: none.	51 E 52	8:00-8:50 6:20-8:10PM	MTuWThF Tu F	113 113
1	11:00-12:50	Tu F	AUD 4	B205-4	Introduction to Health Education	Prereq.: 100.	Offered at Alton. See Bus Sched. on back cover.			
1	1:00-2:50	Tu F	SS 1	B313S-4	Introduction to Safety Education	Prereq.: none. Offered once annually and only at Alton.	Offered at Alton. See Bus Sched. on back cover.			
HISTORY (HIST)										
ES 1	8:20-9:45PM 11:00-12:25PM	W Saturday	AUD 2 AUD 2	101-3	Survey of Western Civilization	Prereq.: none. Students may begin freshman history with either 101 or 102.	E 51	8:20-9:45PM	Tu F	203
1 2 3 E 4	12:00-12:50 2:00-2:50 3:00-3:50 8:20-9:45PM	MTu Th MTu Th MTu Th Tu F	AUD 2 AUD 2 AUD 2 AUD 2	102-3	Survey of Western Civilization	Prereq.: none.	51 E 52	2:00-2:50 8:20-9:45PM	M WTh M Th	212 203
1	11:00-11:50	M W F	AUD 5	103-3	Survey of Western Civilization	Prereq.: 102.	51	9:00-9:50	M W F	212
1 E 2	9:00-9:50 5:55-8:10PM	MTuWThF Tu F	AUD 1 AUD 1	201-5	The United States to 1865	Prereq.: sophomore standing.				
1	1:00-1:50	MTuWThF	AUD 2	202-5	The United States Since 1865	Prereq.: sophomore standing.	51 E 52	11:00-11:50 5:55-8:10PM	MTuWThF Tu F	203 203
1 Offered at E. St. Louis, See Bus Sched. on back cover.	1:00-2:25	Tu F	AUD 1	B306-3 B323-4 330-3	History of Rome English History: 1603-1815 The Revolution and the Constitution	Prereq.: freshman survey. Prereq.: freshman survey. Prereq.: 201.	Offered at Alton. See Bus Sched. on back cover.			
1	9:00-10:25	Tu F	AUD 2	B372-3	Russian History to 1905	Prereq.: freshman survey. Offered only at Alton.	Offered at Alton. See Bus Sched. on back cover.			
1 Offered at E. St. Louis, See Bus Sched. on back cover.	11:00-11:50	TuW F	AUD 1	401-3 B412-3 415-3	The Old South Intellectual History of the United States The Age of the Renaissance	Prereq.: 201. Prereq.: 201. Continuation of 411. Offered every other year. Prereq.: freshman survey.	51 E 51	10:00-11:25 5:30-8:10PM	M Th W	215 203
HUMANITIES (HUM)										
1	8:30-9:50	Tu	LL 21	302-3	Humanities II (Honors Program)	Prereq.: sophomore literature requirement. Undergraduate credit only. Entrance by invitation of Honors Program Committee.	51	1:00-2:30	W	104

INSTRUCTIONAL MATERIALS (I M)

E 1	5:30-8:10PM	M	SCI 102	405-4 406-4	Library Materials for Children Library Materials for Adolescents	<i>Prereq.: none. Same as Ed E1 313.</i> <i>Prereq.: none. 4 additional sessions to be arranged.</i>	E 51	4:20-6:10PM	M	Th	221
S 1	9:00-11:40AM	Saturday	SCI 102	417-4	Audio-Visual Methods in Education	<i>Prereq.: Guid 305. 4 additional sessions to be arranged.</i>					

JOURNALISM (JRNL)

1	1:00-2:25	Tu	F	SU	B202-3	News Writing and Editing II	<i>Prereq.: 201. Offered once annually and only at Alton.</i>	Offered at Alton. See Bus Sched. on back cover.
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Offered at E. St. Louis. See Bus Sched. on back cover.

					B391-3	Feature Writing	<i>Prereq.: none. Offered once annually and only at East St. Louis.</i>	51	2:00-3:25	M	Th	103
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MANAGEMENT (MGT)

1	8:00-8:50	MTuW	F	SCI 208	170-4	Introduction to Business Administration	<i>Prereq.: none.</i>	51	9:00-9:50	MTu	ThF	113
E 2	8:20-10:10PM	M	Th	ANB 21				E 52	6:20-8:10PM	M	Th	106
E 3	6:20-8:10PM	Tu	F	ANB 21				E 53	6:20-8:10PM	Tu	F	105

ES 1	6:20-8:10PM	W		ANA 8	271-4	Business Writing	<i>Prereq.: Eng 103.</i>	51	2:00-2:50	MTu	ThF	223
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9:00-10:50AM

E 1	5:55-8:10PM	M	Th	ANA 8	320-5 323-4	Corporation Finance Investments	<i>Prereq.: Acct 253 and Econ 205.</i> <i>Prereq.: 320.</i>	51	3:00-3:50	MTuWThF		105
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								ES 51	6:20-8:10PM	W		215
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									9:00-10:50AM	Saturday		
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1	10:00-10:50	M	WThF	ANA 8	327-4	General Insurance	<i>Prereq.: Acct 253 and Econ 206.</i>					
1	9:00-9:50	M	WTh	ANA 2	328-3	Real Estate	<i>Prereq.: junior standing.</i>	E 51	6:20-7:45PM	Tu	F	106

E 1	6:20-8:10PM	M	Th	ANB 21	340-4	Business Organization and Management	<i>Prereq.: junior standing or consent of instructor.</i>	51	10:00-10:50	MTu	ThF	204
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1	3:00-3:50	MTuW		ANB 21	361-3	Business Report Writing	<i>Prereq.: junior standing.</i>					
1	1:00-1:50	M	WThF	ANB 21	371-4	Business Law I	<i>Prereq.: junior standing.</i>	E 51	8:20-10:10PM	M	Th	103

E 2	8:20-10:10PM	Tu	F	ANB 21								
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1	8:00-8:50	M	WThF	ANA 2	372-4	Production Management	<i>Prereq.: Econ 206.</i>	51	1:00-1:50	MTu	ThF	224
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E 2	6:20-8:10PM	Tu	F	ANA 6	380-4 385-4	Personnel Management	<i>Prereq.: Econ 206.</i>	51	11:00-11:50	MTu	ThF	105
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E 1	8:20-10:10PM	M	Th	ANA 6								
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E 1	6:20-8:10PM	M	Th	ANB 2	475-4 480-4	Budgeting and Systems Seminar in Labor Law	<i>Prereq.: 320 and Acct 253.</i> <i>Prereq.: 2 quarters of Business Law or Econ 310 or Govt 385.</i>	E 51	8:20-10:10PM	Tu	F	202A
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1	1:00-2:50	M	Th	ANA 8	B481-4	Administrative Management	<i>Prereq.: 340.</i>	Offered at Alton. See Bus Sched. on back cover.
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MARKETING (MKT)

1	9:00-9:50	MTuWThF		SCI 300	230-5	Principles of Marketing	<i>Prereq.: Econ 205 or consent of instructor.</i>	51	11:00-11:50	MTuWThF		204
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5:55-8:10PM

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SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	MARKETING (MKTG) (Continued)	REMARKS	SECTION	TIME	DAYS	ROOM
1	9:00-10:50	M Th	ANA 5	B331-4	Retailing	Prereq.: 230.				
1	11:00-12:50	M Th	ANB 1	B332-4	Store Management	Prereq.: 331. Offered once annually and only at Alton.				
1	8:00-8:50	MTuWTh	ANB 1	333-4	Principles of Advertising	Prereq.: 230.	E 51	6:20-8:10PM	Tu F	201B
1	1:00-1:50	MTu ThF	ANB 1	334-4	Credits and Collections	Prereq.: 230.	51	9:00-9:50	MTuW F	203
				337-4	Principles of Salesmanship	Prereq.: 230.				
				341-4	Transportation	Prereq.: 230.				
				349-3	Wholesaling	Prereq.: 230.				
ES 1	8:20-10:10PM	W	ANA 6	384-4	Advertising Media Analysis	Prereq.: 333.	E 51	8:20-9:45PM	Tu F	204
	11:00-12:50AM	Saturday	ANA 6							
				438-4	Sales Management	Prereq.: 230 and 337, or consent of instructor.	E 51	8:20-10:10PM	M Th	106
				B463-3	Advertising Management	Prereq.: 333. Offered once annually and only at East St. Louis.	51	10:00-11:25	Tu F	104
Offered at E. St. Louis. See Bus Sched. on back cover.										
MATHEMATICS (MATH)										
1	10:00-10:50	MTu ThF	AUD 4	100-0	Elementary Mathematics	Prereq.: none.	51	1:00-1:50	MTu ThF	205
1	10:00-10:50	MTuWThF	SCI 301	106-4	General Mathematics I	Prereq.: none. Student will not receive credit for 106 if he has had 3 semesters of high school algebra or any other college mathematics.	51	1:00-1:50	MTuWThF	204
2	10:00-10:50	M W F	SCI 301				52	1:00-1:50	M W F	204
	10:00-10:50	Tu Th	SCI 209					1:00-1:50	Tu Th	220
3	10:00-10:50	M W F	SCI 301				53	1:00-1:50	M W F	204
	9:00-9:50	Tu Th	SCI 209					12:00-12:50	Tu Th	205
ES 4	8:20-10:10PM	W	SCI 209				E 54	6:20-8:10PM	M Th	220
	11:00-12:50PM	Saturday	SCI 209							
				107A-4	General Mathematics II	Prereq.: 106 or 3 semesters of high school algebra.	51	12:00-12:50	MTu ThF	220
1	12:00-12:50	M WThF	ANA 4	107B-4	General Mathematics II (Business)	Prereq.: 106 or 3 semesters of high school algebra.	52	3:00-3:50	MTu ThF	220
E 2	8:20-10:10PM	M Th	ANA 4				51	11:00-11:50	MTu ThF	220
							52	3:00-3:50	MTu ThF	205
1	12:00-12:50	MTuWThF	SCI 209	111-5	Elementary Analysis I	Prereq.: 106 or 3 semesters of high school algebra and 75% on guidance test.	E 53	8:20-10:10PM	Tu F	220
ES 2	8:20-10:35PM	W	ANA 4				ES 51	1:00-1:50	MTuWThF	203
	11:00-12:50PM	Saturday	ANA 4					5:55-8:10PM	W	220
1	8:00-8:50	MTuWThF	ANA 4	112-5	Elementary Analysis II	Prereq.: 111 or 1½ years of high school algebra and 90% on guidance test.		8:35-10:50AM	Saturday	220
2	10:00-10:50	MTuWThF	ANA 4				51	8:00-8:50	MTuWThF	220
3	2:00-2:50	MTuWThF	SCI 209				52	9:00-9:50	MTuWThF	220
E 4	8:20-10:35PM	M Th	SCI 209				53	2:00-2:50	MTuWThF	220
E 5	5:55-8:10PM	Tu F	ANA 4				E 54	8:20-10:35PM	M Th	220
							E 55	5:55-8:10PM	Tu F	220
ES 1	6:20-8:10PM	W	SCI 209	210-4	The Teaching of Elementary Mathematics	Prereq.: 106.				
	9:00-10:50AM	Saturday	SCI 209							

Offered at Alton. See Bus Sched. on back cover.
Offered at Alton. See Bus Sched. on back cover.

1	3:00-3:50	MTu	ThF	ANA 4	220-4	Elementary Statistics	Prereq.: 106.	51	8:00-8:50	MTuW	F	205
1	11:00-11:50	MTu	ThF	SCI 209	251-4	Calculus and Analytic Geometry II	Prereq.: 113.	E 51	6:20-8:10PM	Tu	F	205
E 2	6:20-8:10PM	M	Th	SCI 209								
1	8:00-8:50	TuWThF		SCI 209	252-4	Calculus and Analytic Geometry III	Prereq.: 251.	51	10:00-10:50	MTu	ThF	220
2	1:00-1:50	MTu	ThF	ANA 4								
ES 3	6:20-8:10PM	W		ANA 4								
	9:00-10:50AM	Saturday		ANA 4								
E 1	6:20-7:35PM	Tu	F	SCI 209	306-3	Differential Equations II	Prereq.: 305.					
1	3:00-3:50	MTu	Th	ANA 5	321-3	Fundamental Concepts of Algebra II	Prereq.: 320.	51	9:00-9:50	M	W	104
1	9:00-10:15	M	Th	AUD 2	B336-3	Concepts of Geometry II	Prereq.: 335.	Offered at Alton. See Bus Sched. on back cover.				
1	3:00-3:50	MTu	ThF	ANA 4	410-3	Statistical Analysis I	Prereq.: 106.	51	8:00-8:50	MTuW	F	205
1	2:00-2:50	M	W	ANA 4	411-3	Statistical Analysis II	Prereq.: 220 or 410.	51	3:00-3:50	MTu	Th	104
E 2	8:20-9:45PM	M	Th	SCI 103				E 52	8:20-9:45PM	Tu	F	104
1	1:00-2:15	M	Th	ANA 5	453-3	Advanced Calculus	Prereq.: 452.	E 51	8:20-9:45PM	M	Th	205
					B481-3	Probability and Statistics	Prereq.: 480.	Offered at Alton. See Bus Sched. on back cover.				
					502-3	Real Variables	Prereq.: 501.	E 51	6:20-7:45PM	M	Th	205

MUSIC (MUS)

1	1:00-1:50	MTuWThF		FAB 1	001-1	University Band	Prereq.: open to all University students upon audition.	51	11:00-11:50	M	W	F	AUD
E 1	8:15-10:15PM	M		AUD 5	002A-1½	University Chorus	Prereq.: open to all University students upon audition.	E 51	8:15-10:15PM	Tu			212
1	11:00-11:50	M	W	F	002C-1	Collegiate Singers	Prereq.: open to all University students upon audition.	51	12:00-12:50	Tu	Th		212
E 1	Arranged	Arranged		Arranged	003-1	Orchestra	Prereq.: open by audition. Credit for music majors only.						
1	8:00-8:50	M	W	F	010-1	Class Strings	Prereq.: none. Two quarters or proficiency required of majors.						
1	10:00-10:50	Tu	Th	F	020A-1	Class Flute							
1	10:00-10:50	Tu	Th	F	020B-1	Class Oboe							
1	10:00-10:50	Tu	Th	F	020C-1	Class Clarinet							
1	10:00-10:50	Tu	Th	F	020D-1	Class Bassoon							
1	10:00-10:50	Tu	Th	F	020E-1	Class Saxophone							

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SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	MUSIC (MUS) (Continued)	REMARKS	SECTION	TIME	DAYS	ROOM
1	8:00-8:50	M W F	FAC 2	040-1	Class Piano		Prereq.: none for majors. Six quarters or proficiency required of majors. Prereq. for non-majors: Music 200 or equivalent.	51	11:00-11:50	M W F	212
2	1:00-1:50	M W F	FAC 2				(Mus 200 and 040 may be taken concurrently.)				
3	2:00-2:50	M W F	FAC 2				Allon: section one for 1st year music majors; section three, 2nd year music majors; section two, non-music majors, East St. Louis; section fifty-one, non-music majors.				
1	2:00-2:50	M W F	FAB 1	050A-1	Class French Horn		Prereq.: none. Two quarters or proficiency required of majors.				
1	2:00-2:50	M W F	FAB 1	050B-1	Class Trumpet						
1	2:00-2:50	M W F	FAB 1	050C-1	Class Trombone						
1	2:00-2:50	M W F	FAB 1	050D-1	Class Tuba						
1	2:00-2:50	M W F	FAB 1	050E-1	Class Baritone						
1	10:00-10:50	M W F	Arranged	060-1	Class Voice		Prereq.: none. Three quarters or proficiency required of music majors.				
E1	6:20-7:45PM	M Th	FAC 22	100-3	Music Understanding		Prereq.: none. For general University students, (Music majors should take 101, 102, 103 sequence.)	51	10:00-10:50	M W F	AUD
1	11:00-11:50	Tu Th	FAC 22	102-2	Introduction to Music Literature and History		Prereq.: 101. Winter quarter only.				
1	9:00-9:50	MTuWThF	FAC 22	106-4	Theory of Music		Prereq.: 105. Winter quarter only.				
1	10:00-10:50	MTuWThF	FAC 22	200-3	Fundamentals of Music		Prereq.: none.				
1	2:00-2:50	M W F	FAC 21	206-4	Theory of Music		Prereq.: 205. Winter quarter only.				
1	9:00-9:50	M W F	FAC 21	300-3	Music Education—Elementary		Prereq.: 200 or equivalent. Non-music majors.	51	11:00-11:50	M W F	113
1	3:00-3:50	M F	FAC 22	302-3	Music Education in the Junior High School		Prereq.: junior standing. Music majors only. Winter quarter only.				
1	10:00-10:50	Th	FAB 27	310-2	Orchestration II		Prereq.: 309. Winter quarter only.				
				313-2	Composition II		Prereq.: 312. One hour of class plus individual conference. Winter quarter only. One hour to be arranged.				
1	9:00-9:50	Tu Th	FAB 1	319-2	Conducting—Choral and Instrumental		Prereq.: 318. Winter quarter only.				
1	2:00-2:50	Tu Th	FAB 1	327-2	Analysis II		Prereq.: 326. Winter quarter only. To be taken concurrently with 331.				
1	2:00-2:50	M W F	FAC 22	331-2	Music History and Literature		Prereq.: 330. Winter quarter only. To be taken concurrently with 327.				
1	10:00-10:50	Tu	FAB 1	345-1	Madrigal Singers		Prereq.: audition.				
1	11:00-11:50	Tu	FAC 21	355-1	Chamber Music—Strings		Prereq.: audition.				

1	8:00-8:50	Tu	FAC 22	365a-1	Chamber Music—Woodwinds	<i>Prereq.: audition.</i>
2	12:00-12:50	Tu	FAC 22	365b-1	Chamber Music—Woodwinds	<i>Prereq.: audition.</i>
3	11:00-11:50	Tu	FAB 1	365c-1	Chamber Music—Brass	<i>Prereq.: audition.</i>
4	11:00-11:50	Th	FAB 1	365d-1	Chamber Music—Brass	<i>Prereq.: audition.</i>
E 1	5:00-7:30PM	Th	FAC 22	412-3	Choral Literature	<i>Prereq.: senior standing. Winter quarter only.</i>
E 1	5:00-6:40PM	Tu	FAC 21	442-2	18th Century Counterpoint	<i>Prereq.: 441. Winter quarter only.</i>
E 1	5:00-6:40PM	M	FAC 21	550-2	Organization and Administration of the Music Education Program—Elementary	<i>Prereq.: graduate level. Winter quarter only.</i>

The following courses in applied music are available for music majors and minors and for others under exceptional conditions. Consult the music adviser at Alton or East St. Louis. Each of these courses has only one section. Times to be arranged.

011-1 to 4	Private Violin	031-1 to 4	Private Percussion	471-2 to 8	Private Piano	474D-2 to 8	Private Bassoon
012-1 to 4	Private Viola	041-1 to 4	Private Piano	472-2 to 8	Private Voice	474E-2 to 8	Private Saxophone
013-1 to 4	Private Violoncello	051-1 to 4	Private French Horn	473A-2 to 8	Private Violin	475A-2 to 8	Private Trumpet
014-1 to 4	Private Double Bass	052-1 to 4	Private Trumpet	473B-2 to 8	Private Viola	475B-2 to 8	Private French Horn
021-1 to 4	Private Flute	053-1 to 4	Private Trombone	473C-2 to 8	Private Violoncello	475C-2 to 8	Private Baritone
022-1 to 4	Private Oboe	054-1 to 4	Private Tuba	473D-2 to 8	Private Double Bass	475D-2 to 8	Private Trombone
023-1 to 4	Private Clarinet	055-1 to 4	Private Baritone	474A-2 to 8	Private Flute	475E-2 to 8	Private Tuba
024-1 to 4	Private Bassoon	061-1 to 4	Private Voice	474B-2 to 8	Private Oboe	476-2 to 8	Private Organ
025-1 to 4	Private Saxophone	071-1 to 4	Private Organ	474C-2 to 8	Private Clarinet		

PHILOSOPHY (PHIL)

1	10:00-10:50	Tu	SS 1	121-2	Practical Logic II	<i>Prereq.: 120.</i>	51	11:00-11:50	Tu	F	205
E 2	6:20-8:10PM	Tu	SS 1								
1	1:00-2:50	Tu	F	240-4	Ethics	<i>Prereq.: none.</i>	51	9:00-9:50	MTu	ThF	106
				301-4	Philosophy of Religion	<i>Prereq.: junior standing or consent of instructor.</i>					
				B382-4	Medieval and Early Modern Philosophy	<i>Prereq.: junior standing or consent of instructor. Offered once annually and only at East St. Louis.</i>	51	2:00-3:50	M	Th	106

See also Govt 485.

PHYSICAL EDUCATION—MEN (PEM)

1	10:00-10:50	F	SS 1	101-1	Orientation in Physical Education	<i>Prereq.: majors and minors only.</i>
1	2:00-2:50	M	W	114-1	Methods and Materials of Teaching Wrestling	<i>Prereq.: majors and minors only.</i>

WINTER

Alton Campus

WINTER

East St. Louis Campus

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
PHYSICAL EDUCATION—MEN (PEM) (Continued)										
1	9:00-9:50	MTaWTh	ANB 2	116-2	Methods and Materials of Teaching Gymnastics	<i>Prereq.: majors and minors only.</i>				
1	11:00-12:50	M W	ANA 8	117-1	Methods and Materials of Teaching Swimming	<i>Prereq.: none. Required for majors and minors in P.E.</i>				
1	1:00-1:50	Tu ThF	GYM	152-1	Basic Rhythms I	<i>Prereq.: majors and minors only.</i>				
1	Arranged	MTaWThF	Arranged	171-2	Varsity Basketball	<i>Prereq.: consent of instructor.</i>	51	Arranged	MTuWThF	GYM
Required Physical Education										
1	8:00-8:50	W F	GYM	252-1	(Fencing)	<i>Prereq.: fee.</i>				
2	11:00-12:50	M W	Arranged		(Swimming)	<i>Prereq.: non-swimmers and beginners only.</i>	51	2:00-2:50	M W	GYM
3	10:00-11:50	F	GYM		(Net Games)	<i>Prereq.: none.</i>	52	9:00-9:50	Tu Th	GYM
4	1:00-1:50	Tu Th	GYM		(Square Dance)	<i>Prereq.: none.</i>	53	1:00-1:50	Tu Th	GYM
1	9:00-10:50	W	Arranged	254-1	(Wrestling)	<i>Prereq.: beginners only.</i>	54	1:00-1:50	M W	GYM
2	9:00-10:50	F	Arranged		(Social Dance)	<i>Prereq.: none. Fee. Meets University P.E. requirement.</i>				
1	1:00-1:50	M W	SS 1	261-1	Bowling	<i>Prereq.: majors and minors only.</i>				
					Teaching of Individual Activities I					
E 1	6:20-8:10PM	M Th	SS 21	350-4	Methods and Materials for Teaching Physical Education	<i>Prereq.: P.E. majors and Ed Ed majors.</i>				
1	2:00-2:50	MTu ThF	ANB 21	354-4	Activities in the Elementary School	<i>Prereq.: majors and minors only.</i>				
1	8:00-8:50	MTuW F	SS 21	370-4	Organization and Administration of Physical Education and Athletics	<i>Prereq.: majors and minors only.</i>				
					Tests and Measurements in Physical Education					
PHYSICAL EDUCATION—WOMEN (PEW)										
Fundamental Rhythms										
1	2:00-2:50	Tu ThF	GYM	107-1		<i>Prereq.: none.</i>				
1	1:00-2:50	Tu F	Arranged	B204-1	Beginning Swimming	<i>Prereq.: none. Fee.</i>				
1	1:00-2:50	Tu F	Arranged	B205-1	Intermediate Swimming	<i>Prereq.: 204 or equivalent. Fee.</i>				
1	1:00-1:50	Tu Th	GYM	208-1	American Square Dance and Mixers	<i>Prereq.: none.</i>				
1	10:00-10:50	Tu Th	ANB 22	212-1	Basketball	<i>Prereq.: none.</i>	51	10:00-10:50	W F	GYM
2	1:00-1:50	M W	AUD 1							

Offered at Alton. See Bus Sched. on back cover.
Offered at Alton. See Bus Sched. on back cover.

Alton Campus

WINTER

East St. Louis Campus

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
PSYCHOLOGY (PSYC)										
1 E 2	10:00-10:50 8:20-10:10PM	MTuWTh M Th	AUD 5 SCI 300	201-4	Introductory Psychology	Prereq.: none.	51 E 52	3:00-3:50 8:20-10:10PM	MTaWTh M Th	113 113
1 E 1	4:20-6:10PM	M Th	AUD 1	301-4	Child Psychology	Prereq.: 201.	E 51	6:20-8:10PM	Tu	112
Offered at E. St. Louis. See Bus Sched. on back cover.										
1 E 1	1:00-2:50 6:20-8:10PM	Tu F M Th	ANA 2 ANB 22	B305-4 B307-4 320-4	Adolescent Psychology Personality Dynamics Social Psychology Introduction to Industrial Psychology	Prereq.: 201. Prereq.: 201. Prereq.: 201. Prereq.: 201.	E 51 51	6:20-8:10PM 2:00-3:50	M Th M Th	112 203
Offered at Alton. See Bus Sched. on back cover.										
1 E 1	11:00-12:50	Tu F	ANB 2	B431-4 432-4	Psychopathology Mental Hygiene	Prereq.: 305 or consent of instructor. Prereq.: Psyc 305 or consent of instructor. 4 additional sessions to be arranged. Same as Guid 412.	Offered at Alton. See Bus Sched. on back cover. E 51	5:30-8:10PM	F	202A
1 E 1	Arranged	Arranged	Arranged	479-4	Psychology of Industrial Conflict	Prereq.: 320 or consent of instructor.	E 51	6:20-8:10PM	Tu	116
1 E 1	Arranged	Arranged	Arranged	490-1 to 8	Independent Projects	Prereq.: consent of instructor.	51	Arranged	Arranged	Arranged
SECRETARIAL SCIENCE (SEC SCI)										
1 E 2	9:00-9:50 8:20-10:10PM	MTuWTh Tu F	ANA 3 ANA 3	102-3 103-3	Typewriting I Typewriting II	Prereq.: none. Prereq.: 102 or equivalent.	E 51 51	8:20-10:10PM 1:00-1:50	M Th MTu ThF	223 223
1 E 2	10:00-10:50 6:20-8:10PM	MTuWTh Tu F	ANA 3 ANA 3	104-3 106-4	Typewriting III Shorthand II	Prereq.: 103 or equivalent. Prereq.: 105 or equivalent.	E 51 51	8:20-10:10PM 11:00-11:50	Tu F MTu ThF	223 223
1 E 2	11:00-11:50 8:20-9:10PM	M M	ANA 3 ANA 3	B113-1 113-1	Typewriting-Duplicating Typewriting-Duplicating	Prereq.: 102 or equivalent. Prereq.: 102 or equivalent.	E 52	6:20-8:10PM	M Th	223
Offered at Alton. See Bus Sched. on back cover.										
1 E 2	9:00-9:50 8:20-10:10PM	MTuWTh Tu F	ANA 3 ANA 3	213-3 216-4	Typewriting IV Shorthand IV	Prereq.: 104 or equivalent. Prereq.: 107 or equivalent.	51 E 52 E 51	1:00-1:50 8:20-10:10PM 6:20-8:10PM	MTu ThF Tu F Tu F	223 223 223
1 E 2	2:00-2:50 6:20-8:10PM	MTuWTh M Th	ANA 3 ANA 3	308-4 313-4	Shorthand V Calculating Machines	Prereq.: 216 or equivalent. Prereq.: none.	E 51	6:20-8:10PM	M Th	225
SOCIOLOGY (SOC)										
TV Lec	12:00-12:45	Tu ThF	SCI 208	101-5	Introductory Sociology KETC Channel 9 TV Lecture	Prereq.: none. Choose one lecture section and one discussion section.	TV Lec	12:00-12:45	Tu ThF	103

or:

[illegible]

Alton Campus

WINTER

East St. Louis Campus

SECTION	TIME	DAYS	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
SPEECH (SPCH) (Continued)									
1	Arranged	Arranged	ANB	Forensic Activities	<i>Prereq.: none.</i>				
1	10:00-11:50	M Th	ANB 2	Basic Radio Production	<i>Prereq.: 101 or consent of instructor.</i>				
1	Arranged	Arranged	399-1 to 4	Readings in Speech	<i>Prereq.: junior standing and consent of instructor.</i>	51	Arranged	Arranged	Arranged
THEATER (THEA)									
<i>Offered at E. St. Louis. See Bus Sched. on back cover.</i>									
			204-4	Acting	<i>Prereq.: 101 or consent of instructor.</i>	51	9:00-9:50	MTu	ThF
			B208-1	Dramatic Activities	<i>Prereq.: none. Credit earned by participation in public performance.</i>	51	12:00-1:50	MTu	ThF
<i>Offered at E. St. Louis. See Bus Sched. on back cover.</i>									
			B308-1	Dramatic Activities	<i>Prereq.: none. Credit earned by participation in public performance.</i>	51	12:00-1:50	MTu	ThF
1	11:00-11:50	MTu F	ANB 21	Children's Theater	<i>Prereq.: 101 or consent of instructor.</i>	51	10:00-10:50	MTu	F
<i>Offered at E. St. Louis. See Bus Sched. on back cover.</i>									
			B402-4	Directing	<i>Prereq.: 204 or 208.</i>	51	2:00-3:50	M Th	AUD
ZOOLOGY (ZOOZ)									
<i>Offered at E. St. Louis. See Bus Sched. on back cover.</i>									
1	10:00-10:50	M W F	SCI 102	Principles of Animal Biology	<i>Prereq.: none.</i>				
2	8:00-9:50	Tu Th	SCI 205						
	10:00-10:50	M W F	SCI 102						
3	10:00-11:50	Tu Th	SCI 205						
	2:00-2:50	M W F	SCI 208						
	12:00-1:50	Tu Th	SCI 205						
4	2:00-2:50	M W F	SCI 208						
	2:00-3:50	Tu Th	SCI 205						
E 5	6:00-7:15PM	M Th	SCI 203						
	7:25-9:15PM	M Th	SCI 205						
1	3:00-3:50	Tu Th	SCI 208						
	2:00-3:50	M W F	SCI 205						
<i>Offered at E. St. Louis. See Bus Sched. on back cover.</i>									
			102-5	General Invertebrate Zoology	<i>Prereq.: 100.</i>	51	10:00-10:50	M W	116
							8:00-9:50	M W	116
							10:00-10:50	M W	116
							10:00-11:50	Tu	ThF
1	8:00-8:50	Tu Th	SCI 103	Vertebrate Embryology	<i>Prereq.: 202.</i>				
	8:00-9:50	M W F	SCI 205						
1	11:00-11:50	M W F	SCI 103	Evolution	<i>Prereq.: one year of biology.</i>				
1	12:00-12:50	MTuWTh	SCI 103	Heredity and Eugenics	<i>Prereq.: 100.</i>	52	10:00-10:50	M W	116
							10:00-11:50	Tu	ThF
1	Arranged	Arranged	322-2 to 5	Problems in Zoology	<i>Prereq.: 4.25 average and senior standing and consent of department.</i>				
1	4:00-4:50	M	SCI 208	Zoology Seminar	<i>Prereq.: one year of biology. Required each quarter of seniors majoring in zoology.</i>				
			382B-1/2		<i>Prereq.: one year of biology.</i>				
Zoogeography									
1	9:00-9:50	M W F	SCI 209	Zoogeography					
			480-3						

Schedule of Classes

Spring Quarter

1962

The following material may be of value in interpreting the information appearing in the class schedule.

- B Course offered only at one campus but scheduled so that students from the other campus may attend by using free bus transportation. See bus schedule on back cover.
- E Evening class.
- ES Evening and Saturday class.
- S Saturday class.

Alton Campus

SPRING

East St. Louis Campus

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
ACCOUNTING (ACCT)										
1	2:00-2:50	MTu ThF	ANA 1	252-4	Elementary Accounting II	Prereq.: 251.	E 51	6:20-8:10PM	Tu	F
E 2	8:20-10:10PM	Tu	ANA 1							
1	8:00-8:50	MTuWTh	ANA 1	253-4	Elementary Accounting III	Prereq.: 252.	51	10:00-10:50	MTu	ThF
2	10:00-10:50	MTu ThF	ANA 1				E 52	8:20-10:10PM	M	Th
E 3	6:20-8:10PM	M	ANA 1				E 53	8:20-10:10PM	Tu	F
E 4	6:20-8:10PM	Tu	ANA 1							
1	9:00-9:50	MTuWTh	ANA 1	353-4	Advanced Accounting III	Prereq.: 352.	51	2:00-2:50	MTu	ThF
E 2	8:20-10:10PM	M	ANA 1				E 52	6:20-8:10PM	M	Th
E 1	6:20-7:45PM	Tu	ANA 2	355-3	Governmental Accounting	Prereq.: 253.				
Offered at E. St. Louis. See Bus Sched. on back cover.										
				B355-3	Governmental Accounting	Prereq.: 253.	51	12:00-1:25	Tu	F
				356-5	Auditing	Prereq.: 353 or consent of instructor.	51	9:00-9:50	MTuWThF	221
1	1:00-2:50	M	ANA 2	B432-4	Problems in Federal Taxation	Prereq.: 331.	Offered at Alton. See Bus Sched. on back cover.			
				432-4	Problems in Federal Taxation	Prereq.: 331.	E 51	6:20-8:10PM	Tu	F
E 1	6:20-8:10PM	M	ANA 2	442-4	Advanced Cost Accounting	Prereq.: 341.	51	11:00-11:50	MTu	ThF
1	11:00-12:50	M	ANA 1	B458-4	Accounting Systems	Prereq.: 341 and 353.	Offered at Alton. See Bus Sched. on back cover.			
1	Arranged	Arranged	Arranged	459-4	Internship in Accounting	Prereq.: outstanding record in accounting and recommendation of the committee on internship.	51	Arranged	Arranged	Arranged
ANTHROPOLOGY (ANTH)										
1	11:00-12:50	Tu	SS 21	B409-4	Anthropology and Modern Life.	Prereq.: none.	Offered at Alton. See Bus Sched. on back cover.			
APPLIED SCIENCE (AP SCI)										
1	2:00-5:50	Tu	ANA 7	206-4	Descriptive Geometry	Prereq.: 101 and Math 112.	E 51	6:00-9:50PM	M	Th
E 2	6:00-9:50PM	Tu	ANA 7							
E 1	6:20-7:45PM	Tu	ANA 6	262-3	Analytical Mechanics (Dynamics II)	Prereq.: 261.	E 51	8:20-9:45PM	M	Th
1	11:00-2:50	Tu	SCI 109	B264-4	Surveying II	Prereq.: 263.	Offered at Alton. See Bus Sched. on back cover.			
ART (ART)										
1	2:00-3:50	MTu ThF	FAA 2	100-5	Basic Studio	Prereq.: none. 15 hours of 100 for all studio courses other than 300.	51	10:00-11:50	MTu	ThF
E 2	2:00-2:50	W						10:00-10:50	W	
	6:20-9:50PM	M	FAA 2							214

I 2 E 3	9:00-9:50 11:00-11:50 6:20-7:45PM	M ThF Tu	FAA 4 FAA 4 FAA 4	120-3	Art Appreciation	Prereq.: none. Satisfies general University requirement.	51 52 E 53	9:00-9:50 2:00-2:50 6:20-7:45PM	M W Th	F F F	103 215 212
1	2:00-3:50	MTu	ThF	203-4	Beginning Ceramics	Prereq.: 15 hours of 100.					
1	11:00-12:50	MTuWTh	FAA 21	245-4	Figure	Prereq.: 15 hours of 100.					
1	2:00-3:50	MTu	ThF	250-4	Oil Painting	Prereq.: 12 hours of 245 or consent of instructor.					
1	9:00-10:50	M	W	300-4	Art Education	Prereq.: none. For elementary education majors and art education majors. Student may elect up to 12 hours. (At East St. Louis the spring quarter offering of this course is for students who are enrolling for the first time.)	51	1:00-2:50	M	W	21 4
2	12:00-1:50	M	W								
E 1	6:20-9:00PM	Tu	F	302-4	Beginning and Advanced Ceramics	Prereq.: 203 or consent of instructor.					
1	2:00-3:50	MTu	ThF	320-4	Advanced Painting	Prereq.: 12 hours of 250 or consent of instructor.					
1	11:00-12:50	MTuWTh	FAA 21	323-4	Advanced Figure and Outdoor Sketching	Prereq.: 12 hours of 245.					
1	Arranged	Arranged	Arranged	325-4	Studio	Prereq.: consent of instructor.	51	Arranged	Arranged		Arranged
E 1	6:20-8:10PM	M	Th	328-4	History of World Art III	Prereq.: 327 or consent of instructor.					
1	9:00-10:50	MTu	ThF	358-4	Prints	Prereq.: 245 and 250 or consent of instructor.					
E 1	Arranged	Arranged	Arranged	401-4	Research in Painting	Prereq.: consent of instructor.					
E 1	Arranged	Arranged	Arranged	410-4	Research in Prints	Prereq.: consent of instructor.					
BOTANY (BOT)											
				101-5	General Botany	Prereq.: none.	51	10:00-10:50 10:00-11:50 10:00-10:50	M Tu M	W Th W	105 116 105
S 1	8:00-5:00	Saturday	SCI 203	131-5	Field Biology	Prereq.: none. Satisfies Illinois state certification requirements in education. Does not satisfy general degree requirement in biological sciences.	52	8:00-9:50	M	W	116
E 1	6:00-7:15PM 7:25-9:15PM	Tu Tu	F F	202-5	General Botany	Prereq.: none.					
1	1:00-1:50 12:00-1:50	M Tu	W Th	203-5	Taxonomy of Local Seed Plants	Prereq.: 101 or 202.					
				405-5	The Fungi	Prereq.: 101 or 202.	51	12:00-12:50 1:00-2:50	M M	W W	116 116

SPRING

Alton Campus

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East St. Louis Campus

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
CHEMISTRY (CHEM)										
1	10:00-10:50 8:00-10:50	MTu Th W	SCI 300 SCI 306	101-4	General Chemistry	Prereq.: none.	51	2:00-2:50 10:00-11:50	M W F Tu Th	112 125
2	10:00-10:50	MTu Th	SCI 300				E 52	6:00-7:15PM 7:25-9:15PM	Tu F Tu F	112 125
E 3	8:00-10:50 6:00-7:15PM 7:25-10:15PM	F M Th M	SCI 306 SCI 300 SCI 306							
1	12:00-12:50 12:00-12:50	M W F Th	SCI 300 SCI 301 SCI 306				E 51	8:20-9:50PM 6:10-8:00PM	M Th M Th	103 125
1	8:00-8:50 8:00-8:50	M W F	SCI 300 SCI 301	113-5	Inorganic and Qualitative Analysis	Prereq.: 112.	51	12:00-12:50 2:00-4:50	MTu Th M W	113 125
2	8:00-8:50 12:00-12:50	Tu Th M W	SCI 306 SCI 300 SCI 301				52	12:00-12:50 2:00-4:50	MTu Th Tu Th	113 125
1	3:00-3:50 1:00-3:50	M Th Tu F	SCI 301 SCI 307				E 51	6:00-7:30PM Lab. to be arranged.	M Th	112
E 1	6:00-7:15PM 7:25-10:15PM	Tu F Tu F	SCI 301 SCI 307				51	10:00-10:50 1:00-3:50	M W F Tu Th	205 123
E 1	7:00-7:50PM	M	SCI 301	375-0 to 1	Senior Seminar	Prereq.: senior with major in chemistry.	51	Arranged	Arranged	Arranged
E 1	6:00-6:50PM 7:00-9:50PM	M M Th	SCI 301 SCI 307	412-4	Inorganic Preparations	Prereq.: 331 or 306 or 343.	51	11:00-11:50 Lab. to be arranged.	Tu Th	201B
1	9:00-9:50 8:00-10:50	M W Tu Th	SCI 301 SCI 307	432-4	Instrumental Analytical Techniques	Prereq.: 331 and 461.	51	2:00-2:50 Lab. to be arranged.	M W	202B
1	2:00-2:50	MTu ThF	SCI 301	446-4	Qualitative Organic Chemistry	Prereq.: 343.				
1	Lab. to be arranged.			460-5	Theoretical Chemistry	Prereq.: 331 or 306 or 342, and one year of physics.				
1	11:00-11:50 12:00-2:50	M W F Th	SCI 301 SCI 303	463-4	Physical Chemistry	Prereq.: 462.	E 51	6:00-7:30PM Lab. to be arranged.	M Th	202B
ECONOMICS (ECON)										
1	10:00-10:50	MTuWThF	SCI 208	205-5	Survey of Economic Principles	Prereq.: sophomore standing.	51	9:00-9:50	MTuWThF	204
E 2	8:20-10:35PM	Tu F	ANA 2				E 52	5:55-8:10PM	M Th	105
1	9:00-9:50	MTu ThF	ANA 2	206-4	Economic Principles and Problems	Prereq.: 205.	E 51	8:20-10:10PM	M Th	106
E 1	5:55-8:10PM 8:00-8:50	M Th MTuWThF	ANA 6 ANA 2	307-4	Economic and Business Statistics	Prereq.: 205. Math 106 recommended.	51	10:00-10:50	MTuWThF	215

1	11:00-12:50	M	Th	ANA 6	B308-4 310-4	Economic and Business Statistics II Labor Problems	<i>Prereq.</i> : 307 or consent of instructor.	Offered at Alton. See Bus Sched. on back cover.
1	12:00-12:50	MTu	ThF	ANA 2	315-4	Money and Banking I	<i>Prereq.</i> : 206, or 205 and consent of instructor.	E 51 6:20-8:10PM M Th 106
E 2	6:20-8:10PM	Tu	F	ANA 8			<i>Prereq.</i> : 205.	51 9:00-9:50 MTuWTh 215
E 1	8:20-10:10PM	M	Th	ANA 6	317-4	Economic History of the United States	<i>Prereq.</i> : 205.	E 51 6:20-8:10PM Tu F 106
Offered at E. St. Louis. See Bus Sched. on back cover.								
					B411-4	Collective Bargaining and Dispute Settlement	<i>Prereq.</i> : 310 or consent of instructor.	51 2:00-3:50 Tu F 201A
Offered at E. St. Louis. See Bus Sched. on back cover.								
1	1:00-2:25	M	Th	ANB 22	B470-3 B481-3	Business Cycles Comparative Economic Systems	<i>Prereq.</i> : 315 or consent of instructor. <i>Prereq.</i> : 205 or consent of instructor.	51 12:00-1:25 Tu F 202A Offered at Alton. See Bus Sched. on back cover.
EDUCATIONAL ADMINISTRATION (ED AD)								
Offered at E. St. Louis. See Bus Sched. on back cover.								
E 1	4:45-6:10PM	M	Th	ANA 2	B331-3 331-3	The American Educational Systems The American Educational Systems	<i>Prereq.</i> : none. <i>Prereq.</i> : none.	51 12:00-1:25 M Th 221
E 1	8:20-10:10PM	Tu	F	AUD 3	355-4	Philosophy of Education	<i>Prereq.</i> : none.	E 51 4:20-6:10PM Tu F 105
2	11:00-12:50	Tu	F	ANB 1	B355-4	Philosophy of Education	<i>Prereq.</i> : none.	Offered at Alton. See Bus Sched. on back cover.
					420-4	Legal Basis of American Education	<i>Prereq.</i> : none. 4 additional sessions to be arranged.	E 51 5:30-8:10PM W 202B
E 1	5:30-8:10PM	W		AUD 4	431-4 460-4	History of Education in the United States Curriculum	<i>Prereq.</i> : none. 4 additional sessions to be arranged. <i>Prereq.</i> : none. 4 additional sessions to be arranged.	E 51 5:30-8:10PM M 201A
E 1	5:30-8:10PM	Th		AUD 4	500-4	Research Methods	<i>Prereq.</i> : graduate standing, 422 recommended.	S 51 9:00-11:40AM Saturday 201A
1	Arranged	Arranged	Arranged	Arranged	575-2 to 4	Individual Research	<i>Prereq.</i> : graduate standing and consent of instructor.	51 Arranged Arranged Arranged
EDUCATION ELEMENTARY (EE EL)								
1	2:00-2:50	Tu	Th	AUD 2	203-3	Understanding the Elementary School Child	<i>Prereq.</i> : Psyc 201. 2 hours per week observation arranged.	51 2:00-2:50 Tu Th 215
E 1	4:20-6:10PM	M	Th	AUD 2	314-4 316-4	Elementary School Methods Kindergarten-Primary	<i>Prereq.</i> : Guid 305. <i>Prereq.</i> : Guid 305.	E 51 6:20-8:10PM Tu F 105
E 1	6:20-8:10PM	Tu	F	AUD 4	337-4	Methods and Curriculum Reading in the Elementary Schools	<i>Prereq.</i> : 314 or 316, and Guid 305.	
1	Arranged	Arranged	Arranged	Arranged	350D-8 to 12	Kindergarten-Primary Student Teaching	<i>Prereq.</i> : must apply to education division two quarters in advance.	51 Arranged Arranged Arranged
SPRING								
SPRING								

Alton Campus

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SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
EDUCATION ELEMENTARY (ED EL) (Continued)										
1	Arranged	Arranged	Arranged	350E-4 to 8	Advanced Kindergarten-Primary Student Teaching	<i>Prereq.: 350D.</i>	51	Arranged	Arranged	Arranged
1	Arranged	Arranged	Arranged	351D-8 to 12	Elementary Student Teaching	<i>Prereq.: must apply to education division two quarters in advance.</i>	51	Arranged	Arranged	Arranged
1	Arranged	Arranged	Arranged	351E-4 to 8	Advanced Elementary Student Teaching	<i>Prereq.: 351D.</i>	51	Arranged	Arranged	Arranged
1	Arranged	Arranged	Arranged	507-2 to 4	Readings in Reading	<i>Prereq.: graduate standing and consent of instructor.</i>	51	Arranged	Arranged	Arranged
E 1	5:30-8:10PM	F	AUD 2	542-4	Language Arts in the Elementary School	<i>Prereq.: graduate standing.</i>	E 51	5:30-8:10PM	Th	201A
1	Arranged	Arranged	Arranged	543-4	Teaching the Social Studies in the Elementary School	<i>Prereq.: graduate standing.</i>	E 51	5:30-8:10PM	Tu	201A
				557-4	The Elementary Principals	<i>Prereq.: graduate standing.</i>	51	Arranged	Arranged	Arranged
				575-2 to 4	Individual Research	<i>Prereq.: graduate standing and consent of instructor.</i>				
EDUCATION INDUSTRIAL (ED I)										
				506-4	Problems of Co-ordinator	<i>Prereq.: none.</i>	E 51	5:30-8:10PM	W	211
EDUCATION SECONDARY (ED SEC)										
1	1:00-2:50	Tu	F	B315-4	High School Methods	<i>Prereq.: Guid 305.</i>	Offered at Alton. See Bus Sched. on back cover.			
1	Arranged	Arranged	Arranged	315-4	High School Methods	<i>Prereq.: Guid 305.</i>	E 51	6:20-8:10PM	M	225
1	Arranged	Arranged	Arranged	352D-8 to 12	Secondary Student Teaching	<i>Prereq.: must apply to education division two quarters in advance.</i>	51	Arranged	Arranged	Arranged
E 1	5:30-8:10PM	F	ANB 2	352E-4 to 8	Secondary Student Teaching	<i>Prereq.: 352D.</i>	51	Arranged	Arranged	Arranged
				407-4	The Junior High School	<i>Prereq.: none. 4 additional sessions to be arranged.</i>				
				487-4	Teaching the Natural Sciences in Secondary Schools	<i>Prereq.: 315 or consent of instructor. 4 additional sessions to be arranged.</i>	E 51	5:30-8:10PM	Tu	116
S 1	9:00-11:40AM	Saturday	AUD 3	488-4	Teaching the Social Studies in the Secondary School	<i>Prereq.: 315 or consent of instructor. 4 additional sessions to be arranged.</i>				
1	Arranged	Arranged	Arranged	550-4	Core Curriculum in the Secondary School	<i>Prereq.: graduate standing.</i>	E 51	5:30-8:10PM	W	201A
				575-2 to 4	Individual Research	<i>Prereq.: graduate standing and consent of instructor.</i>	51	Arranged	Arranged	Arranged

E1	Arranged	Ed EI	351D-8	Elementary Student Teaching	Prereq.: consent of instructor. Application two quarters in advance. Must be taken with Ed Sp 420.
E1	5:30-8:10PM	W	414-4	The Exceptional Child	Prereq.: Guid 305 or Psyc 301 or Psyc 303. 4 additional sessions to be arranged.
E1	5:30-8:10PM	M	420-4	Methods and Materials for Teaching Exceptional Children	Prereq.: 410. Must be taken with 351D. 4 additional sessions to be arranged.
1	1:00-2:50	M Th	B428-4	Speech Correction for the Classroom Teacher	Prereq.: Spch 101. Recommended for education majors. Same as Spch 428.
ENGLISH (ENG)					
1B	8:00-8:50	MTu ThF	101-3	Composition	Prereq.: none.
2B	3:00-3:50	MTu ThF			
E 3B	8:20-10:10PM	Tu F			
1B	9:00-9:50	MTu ThF	102-3	Composition	Prereq.: 101.
2B	12:00-12:50	MTu ThF			
E 3B	8:20-10:10PM	M Th			
1A	11:00-11:50	MTu F	103-3	Composition	Prereq.: 102.
2A	2:00-2:50	MTu F			
3B	8:00-8:50	MTu ThF			
4B	9:00-9:50	MTu ThF			
5B	9:00-9:50	MTu ThF			
6B	10:00-10:50	MTu ThF			
7B	11:00-11:50	MTu ThF			
8B	12:00-12:50	MTu ThF			
9B	1:00-1:50	MTu ThF			
10B	1:00-1:50	MTu ThF			
11B	2:00-2:50	MTu ThF			
12B	3:00-3:50	MTu ThF			
E13B	6:20-8:10PM	M Th			
E14B	8:20-10:10PM	M Th			
E15B	6:20-8:10PM	Tu F			
E16B	8:20-10:10PM	Tu F			
1	11:00-11:50	M W F	205-3	Introduction to Poetry	Prereq.: 103 or equivalent.
E1	6:20-7:45PM	M Th	206-3	Introduction to Drama	Prereq.: 103 or equivalent.
			209-3	Introduction to World Literature	Prereq.: 103 or equivalent.
			212-3	Introduction to Modern Literature	Prereq.: 103 or equivalent.
1	10:00-10:50	MTu ThF	310-4	A Survey of American Literature since 1860	Prereq.: sophomore literature requirement.
E2	6:20-8:10PM	Tu F			

Offered at Alton. See Bus Sched. on back cover.

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SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
ENGLISH (ENG) (Continued)										
Eighteenth-Century Literature										
Offered at E. St. Louis. See Bus Sched. on back cover.							B315-4			
1	9:00-9:50	MTu ThF	ANA 6	317-4	English Literature after 1750	Prereq.: sophomore literature requirement. Offered once annually and only at East St. Louis.	51	12:00-1:50	M Th	211
1	11:00-12:50	Tu F	SCI 103	B366-4	Shakespeare	Prereq.: sophomore literature requirement.	51	10:00-10:50	MTu ThF	211
ES 1	6:20-7:45PM	W	AUD 1	391-3	Usage in Spoken and Written English	Prereq.: sophomore literature requirement. Offered once annually and only at Alton.	E 52	6:20-8:10PM	M Th	202A
E 2	8:20-9:45PM	Tu F	AUD 1			Prereq.: sophomore literature requirement.	Offered at Alton. See Bus Sched. on back cover.			
E 1	4:20-5:45PM	Tu F	AUD 1	392-3	Professional Writing I	Prereq.: consent of instructor.	51	12:00-12:50	M ThF	225
1	1:00-2:50	Tu F	ANA 2	B403-4	The English Language	Prereq.: sophomore literature requirement. Offered once annually and only at Alton.	Offered at Alton. See Bus Sched. on back cover.			
Offered at E. St. Louis. See Bus Sched. on back cover.							B469-4			
Modern Criticism										
FOREIGN LANGUAGES (FL)										
FRENCH (FR)										
1	10:00-10:50	MTu ThF	HUM 2	103-4	Elementary French	Prereq.: 102.				
E 2	6:20-8:10PM	M Th	HUM 2							
1	11:00-12:25	Tu F	ANA 6	B153-3	Intermediate Course	Prereq.: 152 or consent of instructor. Offered once annually and only at Alton.	Offered at Alton. See Bus Sched. on back cover.			
E 1	8:20-10:10PM	M Th	HUM 22	353-4	Advanced Composition and Conversation	Prereq.: 153 or consent of instructor.				
GERMAN (GER)										
1	12:00-12:50	MTuWTh	HUM 2	103-4	Elementary German	Prereq.: 102.	51	9:00-9:50	MTuWTh	225
2	1:00-1:50	MTu ThF	HUM 2				52	10:00-10:50	MTuWTh	225
E 3	8:20-10:10PM	M Th	HUM 2				53	2:00-2:50	MTu ThF	202A
1	11:00-12:25	Tu F	HUM 22	B153-3	Intermediate Course	Prereq.: 152 or consent of instructor.	51	12:00-1:25	M Th	202B
E 1	6:20-8:10PM	M Th	HUM 22	313-4	German Drama in the Nineteenth Century	Prereq.: 153 or consent of instructor.				
LATIN (LAT)										
Intermediate Composition										
ES 1	6:20-8:10PM	W	HUM 2	151-4		Prereq.: 2 years of high school Latin or				

RUSSIAN (RUSS)

103-4	Elementary Russian	Prereq.: 102.	51	12:00-1:50	M	Th	202A
153-3	Intermediate Composition and Reading	Prereq.: 152 or consent of instructor.	E 52 E 51	6:20-8:10PM 8:20-9:45PM	Tu Tu	F F	104 202A

SPANISH (SPAN)

103-4	Elementary Spanish	Prereq.: 102.	51	3:00-3:50	MTu	ThF	211
153-3	Intermediate Course	Prereq.: 152 or consent of instructor.	E 51 E 51	6:20-8:10PM 8:20-9:45PM	Tu Tu	F F	215 215

GEOGRAPHY (GEOG)

1	Cultural Geography	Prereq.: none.	51	10:00-10:50	M	W	F	113
2			52	8:00-8:50	Tu	Th		222
3			53	10:00-10:50	M	W	F	113
			54	10:00-10:50	Tu	Th		205
				5:55-8:10PM	Tu	F		222
101-5	Physical Geography	Prereq.: none. Natural science credit for education majors.	51 E 52	1:00-1:50 5:55-8:10PM	MTuWThF M	Th		222 222

211-5	Economic Geography	Prereq.: none. Required for business majors.	51	11:00-11:50	MTuWThF		222
314-4	Geography of Anglo-America	Prereq.: none. Natural science credit for education majors.					
318-4	Geography of Asia	Prereq.: none. Natural science credit for education majors.					
319-4	Historical Geography of the United States	Prereq.: none.					

B321-2	Geography of Australia	Prereq.: none. Natural science credit for education majors. Offered every other year.					
B322-3	Geography of the Pacific	Prereq.: none. Natural science credit for education majors.					
323-3	Geography of the Near East	Prereq.: none. Natural science credit for education majors.					
324-4	Restoration and Conservation of Natural Resources	Prereq.: none. Natural science credit for education majors.					

404-4	Advanced Economic Geography I (Agricultural)	Prereq.: 210 or 211 or consent of instructor.	ES 51	8:20-10:10PM	W		222
435-4	Geography of Landforms	Prereq.: 101 or consent of instructor. Natural Science credit for education majors.	E 51	11:00-12:50PM 8:20-10:10PM	Saturday M	Th	222 222

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GOVERNMENT (GOV'T)										
1	8:00-8:50	MTuWThF	ANA 5	190-5	American Government	<i>Prereq.: none.</i>	51	8:00-8:50	MTuWThF	204
2	9:00-9:50	MTuWThF	SCI 208				52	1:00-1:50	MTuWThF	204
3	11:00-11:50	MTuWThF	SCI 300				ES 53	5:55-8:10PM	W	203
4	1:00-1:50	MTuWThF	SCI 301					8:35-10:50AM	Saturday	203
5	2:00-2:50	MTuWThF	ANA 4							
E 6	5:55-8:10PM	Tu F	ANA 5							
GOVERNMENT (GOV'T)										
E 1	8:20-9:45PM	M Th	AUD 4	360-4	Introduction to Public Administration	<i>Prereq.: 101 or 190 or 231.</i>	51	9:00-9:50	MTuWTh	104
1	11:00-11:50	MTuWTh	AUD 4	373-3	International Politics of Europe	<i>Prereq.: 370 or consent of instructor.</i>				
				380-4	Political Parties	<i>Prereq.: 101 or 190 or 231.</i>				
				B435-4	Government and Business	<i>Prereq.: 101 or 190 or 231.</i>	51	10:00-11:50	M Th	224
				B457-4	Government and Politics in the Near and Middle East	<i>Prereq.: 101 or 190 or 231. Offered only at East St. Louis and once each year.</i>	51	12:00-1:50	M Th	224
				B473-3	Metropolitan Studies and Research	<i>Prereq.: 232 or 360 or consent of instructor. Offered only at East St. Louis.</i>	51	2:00-3:25	M Th	224
				486-4	Contemporary Political Theories	<i>Prereq.: six hours of government or philosophy. May be counted as credit towards government or philosophy.</i>	E 51	8:20-10:10PM	Tu F	104
1	9:00-10:50	Tu F	ANA 8	B496-4	Constitutional Law II	<i>Prereq.: 101 or 190 or 231. Offered only at Alton and once each year.</i>				
GUIDANCE (GUID)										
ES 1	6:20-8:10PM	W	ANA 2	305-4	Educational Psychology	<i>Prereq.: Psyc 201. 4 additional sessions to be arranged (section S 51 only).</i>	S 51	9:00-11:40AM	Saturday	204
2	9:00-10:50AM	Saturday	ANA 2				E 52	4:20-6:10PM	Tu F	211
	1:00-2:50	Tu F	ANB 1	B305-4	Educational Psychology	<i>Prereq.: Psyc 201.</i>				
E 1	5:30-8:10PM	M	AUD 4	412-4	Mental Hygiene	<i>Prereq.: 305. 4 additional sessions to be arranged. Same as Psyc 432.</i>				
				420-4	Educational Statistics	<i>Prereq.: 305. 4 additional sessions to be arranged.</i>	E 51	5:30-8:10PM	M	116
E 1	5:30-8:10PM	Th	SCI 301	422-4	Educational Measurements I	<i>Prereq.: 305. 4 additional sessions to be arranged.</i>	S 51	9:00-11:40AM	Saturday	211
E 1	5:30-8:10PM	Tu	SS 1	442-4	Basic Principles of Guidance	<i>Prereq.: 305. 4 additional sessions to be arranged.</i>				
1	Arranged	Arranged	Arranged	501-2 to 6	Special Research Problems	<i>Prereq.: graduate standing and consent of instructor.</i>	51	Arranged	Arranged	Arranged

Psychological Aspects of Education		Prereq.: graduate standing.		E 51		5:30-8:10PM		Tu		202A	
515-4	School Behavior Problems and their Prevention	Prereq.: graduate standing and 412 or consent of instructor.	E 51	5:30-8:10PM							
525-4	Appraisal of Intelligence	Prereq.: graduate standing and 535 and consent of instructor.	E 51	5:30-8:10PM	F						202A
536-4	Occupational Information and Guidance	Prereq.: graduate standing and consent of instructor.									
541-4	Guidance Through Groups	Prereq.: graduate standing and 412 and 442.	E 51	5:30-8:10PM	W						201B
543-4	Child Development in Education	Prereq.: graduate standing and 412, or consent of instructor.									
562A-4	Adolescent Development in Education	Prereq.: graduate standing and 412, or consent of instructor.									

HEALTH EDUCATION (H ED)

1	100-4	Healthful Living	Prereq.: none.	51	1:00-1:50	MTuWThF	113
				E 52	4:20-6:10PM	M Th	113
E 1	302S-4	Driver Education and Training	Prereq.: driver's license.				
1	B471-4	Organization and Administration of School Health	Prereq.: 205. Offered once annually and only at Alton.				Offered at Alton. See Bus Sched. on back cover.

HISTORY (HIST)

1	101-3	Survey of Western Civilization	Prereq.: none. Students may begin freshman history with either 101 or 102.	51	9:00-9:50	M WTh	212
2							
1	102-3	Survey of Western Civilization	Prereq.: none.	51	8:00-8:50	M WTh	203
1	103-3	Survey of Western Civilization	Prereq.: 102.	51	2:00-2:50	M WTh	212
E 2				E 52	8:20-9:45PM	M Th	203
1	201-5	The United States to 1865	Prereq.: sophomore standing.	51	11:00-11:50	MTuWThF	203
				E 52	5:55-8:10PM	Tu F	203
E 1	202-5	The United States Since 1865	Prereq.: sophomore standing.				
Offered at E. St. Louis. See Bus Sched. on back cover.							
1	B311-3	Medieval History	Prereq.: freshman survey.	51	10:00-11:25	M Th	124A
	312-3	Central Europe in the 19th Century	Prereq.: freshman survey.				
Offered at E. St. Louis. See Bus Sched. on back cover.							
E 1	B324-4	English History Since 1815	Prereq.: freshman survey.	51	12:00-1:50	M Th	215
	373-3	Russian History Since 1905	Prereq.: freshman survey.				
1	B402-3	The New South	Prereq.: 202. Offered only at Alton.				Offered at Alton. See Bus Sched. on back cover.
Offered at E. St. Louis. See Bus Sched. on back cover.				51	2:00-3:25	M Th	203
	B413-3	Intellectual History of the United States	Prereq.: 202. Continuation of 412. Offered every other year.				

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HISTORY (HIST) (Continued)										
1	11:00-12:25	Tu F	AUD 1	B416-3 441-3	The Age of the Reformation American Diplomacy Since 1898	Prereq.: <i>Irishman survey.</i> Prereq.: 202.	E 51	Offered at Alton. See Bus Sched. 8:20-9:45PM Tu F	on back cover. 202B	
	454-3				Biography in American History	Prereq.: 201 or 202.	51	9:00-9:50 M WTh	201A	
	500-4				History Seminar	Prereq.: graduate standing. Seminar on the American Revolution.	E 51	Arranged	Arranged	
HUMANITIES (HUM)										
1	8:30-9:50	Tu	LL 21	303-3	Humanities III (Honors Program)	Prereq.: sophomore literature requirement. Undergraduate credit only. Entrance by invitation of Honors Program Committee.	51	1:00-2:30 W	104	
INSTRUCTIONAL MATERIALS (I M)										
E 1	5:30-8:10PM	Tu	SS 21	417-4 420-4	Audio-Visual Methods in Education School Library Activities and Practice	Prereq.: Guid 305. 4 additional sessions to be arranged. Prereq.: 306, 308, 403, and 405 or 406. 4 additional sessions to be arranged.	E 51	5:30-8:10PM F	116	
JOURNALISM (JRNL)										
Offered at E. St. Louis. See Bus Sched. on back cover.										
				B103-3	News	Prereq.: none. Offered once annually and only at East St. Louis.	51	2:00-3:25 M Th	103	
1	1:00-2:25	Tu F	SU	B203-3	News Writing and Editing III	Prereq.: 202. Offered once annually and only at Alton.	Offered at Alton. See Bus Sched. on back cover.			
MANAGEMENT (MGT)										
1	9:00-9:50	MTuWTh	SCI 300	170-4	Introduction to Business Administration	Prereq.: none.	51	10:00-10:50 MTuWTh	204	
E 2	8:20-10:10PM	M Th	ANB 21				E 52	6:20-8:10PM M Th	104	
1	11:00-11:50	MTuW F	ANA 8	271-4	Business Writing	Prereq.: Eng 103.	51	11:00-11:50 MTuWTh	223	
1	12:00-12:50	MTuWThF	ANA 8	320-5	Corporation Finance	Prereq.: Act 253 and Econ 205.				
Offered at E. St. Louis. See Bus Sched. on back cover.										
ES 1	8:20-10:10PM	W	ANA 8	B323-4 323-4	Investments	Prereq.: 320.	51	2:00-3:50 Tu F	203	
	10:00-12:50AM	Saturday	ANA 8			Prereq.: 320.				
E 1	8:20-9:45PM	M Th	ANA 2	327-4 328-3	General Insurance Real Estate	Prereq.: Act 253 and Econ 206. Prereq.: junior standing.	E 51	8:20-10:10PM M Th	202B	

1	8:00-8:50	MTuWTh	ANA 8	340-4	Business Organization and Management	<i>Prereq.: junior standing or consent of instructor.</i>	51	11:00-11:50	MTaWTh	202A
1	9:00-9:50	M WTh	ANB 21	361-3	Business Report Writing	<i>Prereq.: junior standing.</i>	E 52	8:20-10:10PM	Tu F	112
1	8:00-8:50	M WThF	ANB 21	373-4	Business Law III	<i>Prereq.: 372.</i>	E 51	6:20-7:45PM	M Th	224
E 2	6:20-8:10PM	Tu F	ANB 21				51	8:00-8:50	MTaWTh	225
1	11:00-11:50	MTuWTh	ANB 21	380-4	Production Management	<i>Prereq.: Econ 206.</i>	E 52	8:20-10:10PM	Tu F	225
E 2	6:20-8:10PM	M Th	ANB 21				E 51	6:20-8:10PM	Tu F	224
1	10:00-10:50	MTuWTh	ANA 6	385-4	Personnel Management	<i>Prereq.: Econ 206.</i>				
1	1:00-2:50	M Th	ANA 8	B421-4	Management of Business Finance	<i>Prereq.: 320.</i>				
						<i>Prereq.: 320.</i>	ES 51	6:20-8:10PM	W	202A
				421-4	Management of Business Finance	<i>Prereq.: 320.</i>		9:00-10:50AM	Saturday	202A
				B473-4	Business Enterprise and Public Policy	<i>Prereq.: senior standing.</i>	51	12:00-1:50	Tu F	202B
E 1	6:20-8:10PM	M Th	ANA 8	475-4	Budgeting and Systems	<i>Prereq.: 320 and Acc 253.</i>				
E 1	8:20-10:10PM	M Th	ANA 8	485-4	Problems in Personnel Management	<i>Prereq.: 385.</i>				
MARKETING (MKTG)										
1	1:00-1:50	MTuWThF	SCI 300	230-5	Principles of Marketing	<i>Prereq.: Econ 205 or consent of instructor.</i>	E 51	5:55-8:10PM	M Th	204
E 1	6:20-8:10PM	Tu F	ANA 4	332-4	Store Management	<i>Prereq.: 331.</i>				
				333-4	Principles of Advertising	<i>Prereq.: 230.</i>	E 51	6:20-8:10PM	Tu F	205
				334-4	Credits and Collections	<i>Prereq.: 230.</i>	E 51	8:20-10:10PM	M Th	224
1	11:00-12:25	M Th	ANB 1	B336-3	Purchasing	<i>Prereq.: 230.</i>				
				337-4	Principles of Salesmanship	<i>Prereq.: 230.</i>	51	11:00-11:50	MTaWTh	225
1	9:00-10:25	M Th	ANB 1	B349-3	Wholesaling	<i>Prereq.: 230. Offered once annually and only at Alton.</i>				
						<i>Offered at Alton. See Bus Sched. on back cover.</i>				
Offered at E. St. Louis. See Bus Sched. on back cover.				B451-4	Traffic Management	<i>Prereq.: consent of instructor. Offered once annually and only at East St. Louis.</i>	51	2:00-3:50	Tu F	224
E 1	6:20-7:45PM	M Th	ANB 1	463-3	Advertising Management	<i>Prereq.: 333.</i>				
1	10:00-10:50	MTuWTh	ANB 22	490-4	Marketing Research and Analysis	<i>Prereq.: consent of division.</i>				
MATHEMATICS (MATH)										
1	8:00-8:50	MTuWThF	ANA 4	106-4	General Mathematics I	<i>Prereq.: none. Student will not receive credit for 106 if he has had 3 semesters of high school algebra or any college math.</i>	51	2:00-2:50	MTaWThF	220
2	8:00-8:50	M W F	ANA 4				52	2:00-2:50	M W F	220
E 3	8:00-8:50	Tu Th	SCI 209					2:00-2:50	Tu Th	211
							E 53	8:20-10:10PM	M Th	220
1	10:00-10:50	MTu ThF	SCI 209	107A-4	General Mathematics II	<i>Prereq.: 106 or 3 semesters of high school algebra.</i>	51	11:00-11:50	MTu ThF	220
E 2	6:20-8:10PM	M Th	ANA 4				52	1:00-1:50	MTu ThF	220
1	3:00-3:50	MTu ThF	ANA 5	107B-4	General Mathematics II (Business)	<i>Prereq.: 106 or 3 semesters of high school algebra.</i>	51	3:00-3:50	MTu ThF	221
E 2	6:20-8:10PM	Tu F	SCI 209				E 52	6:20-8:10PM	M Th	220

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MATHEMATICS (MATH) (Continued)									
1 ES 2	12:00-12:50 8:20-10:35PM	MTuWThF W	SCI 209	Elementary Analysis II	<i>Prereq.: 111 or 1½ years of high school algebra and 90% on guidance test.</i>	51 ES 52	1:00-1:50 5:55-8:10PM	MTuWThF W	205 220
1	8:00-8:50	MTuWThF	SCI 209	Calculus and Analytic Geometry I	<i>Prereq.: 112 or ½ year of high school trigonometry and 97% on guidance test.</i>	51	8:35-10:50AM	Saturday	220
2	10:00-10:50	MTuWThF	ANA 4			52	8:00-8:50	MTuWThF	220
3	1:00-2:50	MTuWThF	SCI 209			53	9:00-9:50	MTuWThF	220
E 4	8:20-10:35PM	M Th	SCI 209			E 54	2:00-2:50 8:20-10:10PM	MTuWThF Tu F	205 220
1	3:00-3:50	MTu ThF	SCI 209	The Teaching of Elementary Mathematics	<i>Prereq.: 106.</i>	51	3:00-3:50	MTu ThF	220
1	11:00-11:50	TuWThF	SCI 209	Calculus and Analytic	<i>Prereq.: 251.</i>	E 51	6:20-8:10PM	Tu F	220
E 2	6:20-8:10PM	M Th	SCI 209	Geometry III	<i>Prereq.: 252.</i>	51	10:00-10:50	MTu ThF	220
1	8:00-8:50	TuWThF	SCI 103	Calculus and Analytic					
2	1:00-1:50	MTu ThF	ANA 4	Geometry IV					
ES 3	6:20-8:10PM	W	ANA 4						
	9:00-10:50AM	Saturday							
Offered at E. St. Louis. See Bus Sched. on back cover.									
1	3:00-3:50	MTu Th	ANA 6	The Teaching of Mathematics	<i>Prereq.: 320.</i>	51	12:00-1:15	Tu F	203
				Fundamental Concepts of Algebra III	<i>Prereq.: 321.</i>	51	9:00-9:50	M W F	205
1	9:00-9:50	M W F	ANA 4	History of Mathematics	<i>Prereq.: 252.</i>				
E 1	6:20-7:35PM	Tu F	SCI 102	Boundary Value Problems	<i>Prereq.: 306.</i>				
Offered at E. St. Louis. See Bus Sched. on back cover.									
E 1	8:20-9:35PM	M Th	SCI 103	Statistical Analysis III	<i>Prereq.: 411.</i>	51	2:00-3:15	Tu F	104
				Statistical Analysis III	<i>Prereq.: 411.</i>	E 52	8:20-9:35PM	Tu F	205
				Advanced Calculus	<i>Prereq.: 453.</i>	E 51	8:20-9:35PM	M Th	205
1	1:00-2:15	M Th	ANA 5	Probability and Statistics	<i>Prereq.: 481.</i>	Offered at Alton. See Bus Sched. on back cover.			
				Real Variable	<i>Prereq.: 502.</i>	E 51	6:20-7:35PM	M Th	201B
MUSIC (MUS)									
1	1:00-1:50	MTuWThF	FAB 1	University Band	<i>Prereq.: open to all University students upon audition.</i>	51	11:00-11:50	M W F	AUD
E 1	8:15-10:15PM	M	AUD 5	University Chorus	<i>Prereq.: open to all University students upon audition.</i>	E 51	8:15-10:15PM	Tu	212
1	11:00-11:50	M W F	FAB 1	Collegiate Singers	<i>Prereq.: open to all University students upon audition.</i>	51	12:00-12:50	Tu Th	212
E 1	Arranged	Arranged	Arranged	Orchestra	<i>Prereq.: open by audition. Credit for music majors only.</i>				
1	9:00-9:50	Tu Th	FAC 21	Class Strings	<i>Prereq.: none. Two quarters or proficiency required of majors. One hour to be arranged.</i>				

Prereq.: none. Two quarters or proficiency required of majors.

Prereq.: none for majors. Six quarters or proficiency required of majors. Prereq. for non-majors: Music 200 or equivalent.

(Mus 200 and 040 may be taken concurrently.) Altos: section one for 1st year music majors; section three, 2nd year music majors; section two, non-music majors. East St. Louis: section fifty-one, non-music majors.

Prereq.: none. Two quarters or proficiency required of majors.

Prereq.: none. Three quarters or proficiency required of music majors.

Prereq.: none. For general University students. (Music majors should take 101, 102, 103 sequence.)

Prereq.: 102. Spring quarter only.

Prereq.: 102. Spring quarter only.

Prereq.: 206. Spring quarter only.

Prereq.: 200 or equivalent. (Non-music majors.)

Prereq.: junior standing. Music majors only. Spring quarter only.

Prereq.: 310. Spring quarter only.

Prereq.: 313. One hour of class plus individual conference. Spring quarter only. One hour to be arranged.

Prereq.: 327. Spring quarter only.

To be taken concurrently with 332.

Prereq.: 331. Spring quarter only.

To be taken concurrently with 328.

Prereq.: audition.

Prereq.: audition.

Prereq.: audition.

Prereq.: audition.

1	2:00-2:50	M	W	F	FAC 21	020A-1	Class Flute
1	2:00-2:50	M	W	F	FAC 21	020B-1	Class Oboe
1	2:00-2:50	M	W	F	FAC 21	020C-1	Class Clarinet
1	2:00-2:50	M	W	F	FAC 21	020D-1	Class Bassoon
1	2:00-2:50	M	W	F	FAC 21	020E-1	Class Saxophone
1	8:00-8:50	M	W	F	FAC 2	040-1	Class Piano
2	1:00-1:50	M	W	F	FAC 2		
3	2:00-2:50	M	W	F	FAC 2		
1	8:00-8:50	M	W	F	FAB 1	050A-1	Class French Horn
1	8:00-8:50	M	W	F	FAB 1	050B-1	Class Trumpet
1	8:00-8:50	M	W	F	FAB 1	050C-1	Class Trombone
1	8:00-8:50	M	W	F	FAB 1	050D-1	Class Tuba
1	8:00-8:50	M	W	F	FAB 1	050E-1	Class Baritone
1	10:00-10:50	M	W	F	Arranged	060-1	Class Voice
E 1	6:20-7:45PM	Tu		F	FAC 22	100-3	Music Understanding
1	11:00-11:50	Tu	Th		FAC 22	103-2	Introduction to Music Literature and History
1	9:00-9:50	MTuWThF			FAC 22	107-4	Theory of Music
1	10:00-10:50	MTuWThF			FAC 22	207-4	Theory of Music
1	9:00-9:50	M	W	F	FAC 21	300-3	Music Education—Elementary
1	9:00-9:50	M	W	F	FAC 21	303-3	Music Education in the Senior High School
1	3:00-3:50	M		F	FAC 21	311-2	Orchestration III
1	10:00-10:50		Th		FAB 27	314-2	Composition III
1	2:00-2:50	Tu	Th		FAB 1	328-2	Analysis III
1	2:00-2:50	M	W	F	FAC 22	332-2	Music Literature and History
1	10:00-10:50	Tu			FAB 1	345-1	Madrigal Singers
1	11:00-11:50	Tu			FAB 21	355-1	Chamber Music—Strings
1	8:00-8:50	Tu			FAC 22	365a-1	Chamber Music—Woodwinds
2	12:00-12:50	Tu			FAC 22	365b-1	Chamber Music—Woodwinds

SPRING

East St. Louis Campus

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Alton Campus

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	MUSIC (MUS) (Continued)	REMARKS	SECTION	TIME	DAYS	ROOM
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3	11:00-11:50	Tu	FAB 1	365c-1	Chamber Music—Brass	<i>Prereq.: audition.</i>					
4	11:00-11:50	Th	FAB 1	365d-1	Chamber Music—Brass	<i>Prereq.: audition.</i>					
E 1	5:00-7:40PM	W	FAC 21	413-3	Chamber Music Literature	<i>Prereq.: senior standing. Spring quarter only.</i>					
E 1	5:00-6:40PM	Tu	FAB 1	443-2	Canon & Fugue	<i>Prereq.: 441. Spring quarter only.</i>					
E 1	5:00-7:30PM	M	FAC 21	554-3	Seminar in Instrumental Materials and Techniques	<i>Prereq.: graduate level. Spring quarter only.</i>					

The following courses in applied music are available for music majors and minors and for others under exceptional conditions. Consult the music adviser at Alton or East St. Louis. Each of these courses has only one section. Times to be arranged.

011-1 to 4	Private Violin	471-2 to 8	Private Piano	474D-2 to 8	Private Bassoon
012-1 to 4	Private Viola	472-2 to 8	Private Piano	474E-2 to 8	Private Saxophone
013-1 to 4	Private Violoncello	473A-2 to 8	Private Violin	475A-2 to 8	Private Trumpet
014-1 to 4	Private Double Bass	473B-2 to 8	Private Viola	475B-2 to 8	Private French Horn
021-1 to 4	Private Flute	473C-2 to 8	Private Violoncello	475C-2 to 8	Private Baritone
022-1 to 4	Private Oboe	473D-2 to 8	Private Double Bass	475D-2 to 8	Private Trombone
023-1 to 4	Private Clarinet	474A-2 to 8	Private Flute	475E-2 to 8	Private Tuba
024-1 to 4	Private Bassoon	474B-2 to 8	Private Oboe	476-2 to 8	Private Organ
025-1 to 4	Private Saxophone	474C-2 to 8	Private Clarinet		

PHILOSOPHY (PHIL)

E 1	8:20-10:10PM	M	Th	SS 1	200-4	Types of Philosophy: An Introduction	<i>Prereq.: none.</i>	E 51	6:20-8:10PM	Tu	F	201B
1	1:00-1:50	MTuWTh	ANA 6	240-4	Ethics		<i>Prereq.: none.</i>					
				B383-4	Recent Philosophy		<i>Prereq.: junior standing or consent of instructor. Offered once annually and only at East St. Louis.</i>	51	2:00-3:50	M	Th	204

See also Govt 486.

PHYSICAL EDUCATION—MEN (PEM)

1	9:00-9:50	Tu	Th	SS 21	118-1	Methods and Materials of Teaching Tennis	<i>Prereq.: majors and minors only.</i>					
1	1:00-1:50	M	W	SS 21	119-1	Methods and Materials of Teaching Golf	<i>Prereq.: majors and minors only.</i>					
1	10:00-10:50	MTu	Th	AUD 3	153-1	Teaching of Team Games II	<i>Prereq.: majors and minors only.</i>					
1	Arranged	MTuWThF	Arranged	173-2	Varsity Tennis	<i>Prereq.: consent of instructor.</i>		51	Arranged	MTuWThF		CYM
1	Arranged	MTuWThF	Arranged	176-2	Varsity Golf	<i>Prereq.: consent of instructor.</i>		51	Arranged	MTuWThF		CYM

East St. Louis Campus

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Alton Campus

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	REMARKS	SECTION	TIME	DAYS	ROOM
PHYSICAL EDUCATION—WOMEN (PEW) (Continued)										
1	9:00-10:50	Tu Th	GYM	322-2	Techniques of Teaching Individual Sports III	<i>Prereq.: PEW majors and minors only.</i>				
1	2:00-2:50	W F	ANA 5	323-1	Officiating Techniques III	<i>Prereq.: none.</i>				
E1	6:20-8:10PM	M Th	AUD 3	350-4	Methods and Materials for Teaching Physical Education Activity in the Elementary School	<i>Prereq.: PEW majors and El Ed majors.</i>	E 51	6:20-8:10PM	M Th	GYM
1	3:00-3:50	M Th	AUD 4	352-2	History of Physical Education	<i>Prereq.: PEW majors and minors only.</i>				
1	8:00-8:50	MTuW F	SS 21	353-4	Organization and Administration of Physical Education	<i>Prereq.: PEW majors and minors only.</i>				
1	11:00-12:50	M	Arranged	377-1	Horseback Riding	<i>Prereq.: none. Fee.</i>				
PHYSICS (PHYS)										
1	10:00-10:50	MTuWTh	SCI 103	101-4 103-4	Survey of Physics Problems in Elementary Physics	<i>Prereq.: Math 106 or equivalent. Prereq.: 101 and 102.</i>	51	9:00-9:50	MTaWThF	124A
1	1:00-2:50	M Th	SCI 103	B212-5	University Physics	<i>Prereq.: 211.</i>	Offered at Alton. See Bus Sched. on back cover.			
1	9:00-9:50	M W F	SCI 102	213-5	University Physics	<i>Prereq.: 212.</i>	51	2:00-3:50	M Th	124A
2	9:00-10:50	Tu	SCI 107					2:00-3:50	W	124
	9:00-9:50	M W F	SCI 102				E 52	6:00-9:05PM	M Th	124A
	9:00-10:50	Th	SCI 102							
	2:00-3:50	Tu	SCI 107							
1	1:00-2:50	M Th	SCI 102	302-4 B303-5	Mechanics Heat	<i>Prereq.: 301. Prereq.: 213 and Math 253, or concurrent enrollment. Laboratory periods to be arranged at Alton and East St. Louis. Lectures only at Alton.</i>	E 51	6:20-8:10PM	Tu F	124A
Offered at E. St. Louis. See Bus Sched. on back cover.							Offered at Alton. See Bus Sched. on back cover.			
1	1:00-2:25	TuW	SCI 103	B306-4	Introduction to Electrical Theory II	<i>Prereq.: 305.</i>	51	12:00-1:50	Tu F	124A
Offered at E. St. Louis. See Bus Sched. on back cover.										
E1	6:00-8:15PM	M Th	SCI 103	B307-2 450-5	Electrical Measurements Introduction to Solid State Physics	<i>Prereq.: 306. Prereq.: 314.</i>	51	2:00-3:50	Tu F	124A
1	1:00-2:25	TuW	SCI 103	503-5	Methods of Theoretical Physics III	<i>Prereq.: 502.</i>				
	1:00-2:50	F	SCI 103							

PSYCHOLOGY (PSYC)

1 E 2	9:00-9:50 8:20-10:10PM	MTaWTh M Th	AUD 5 SCI 300	201-4	Introductory Psychology	Prereq.: none.	51 E 52	1:00-1:50 6:20-8:10PM	MTaWTh Tu F	212 113
1 E 1	1:00-2:50 4:20-6:10PM	Tu F M Th	SCI 102 ANA 8	B301-4 301-4 303-4 311-4	Child Psychology Child Psychology Adolescent Psychology Experimental Psychology	Prereq.: 201. Prereq.: 201. Prereq.: 201. Prereq.: 201.	Offered at Alton. See Bus Sched. on back cover. E 51	4:20-6:10PM	M Th	103
1 E 1	1:00-2:50 5:30-8:10PM	Tu F M	ANB 22 on back cover, AUD 4	B407-4 B431-4 432-4	Theories of Learning Psychopathology Mental Hygiene	Prereq.: 201. Offered once annually. Prereq.: 305 or consent of instructor. Prereq.: 305 or consent of instructor. 4 additional sessions to be arranged. Same as Guid 412.	Offered at Alton. See Bus Sched. on back cover. 51	8:20-10:10PM 2:00-3:50	M Th M Th	105
1	Arranged	Arranged	Arranged	490-1 to 8	Independent Projects	Prereq.: consent of instructor.	51	Arranged	Arranged	Arranged

SECRETARIAL SCIENCE (SEC SCI)

1 E 2	9:00-9:50 8:20-10:10PM	MTaWTh Tu F	ANA 3 ANA 3	102-3	Typewriting I	Prereq.: none.	E 51	8:20-10:10PM	Tu F	223
1 E 2	9:00-9:50 8:20-10:10PM	MTaWTh Tu F	ANA 3 ANA 3	103-3 104-3	Typewriting II Typewriting III	Prereq.: 102 or equivalent. Prereq.: 103 or equivalent.	E 51 E 51	8:20-10:10PM 8:20-10:10PM	Tu F M Th	223 223
1 E 2	9:00-9:50 10:00-10:50	MTaWTh Tu F	ANA 3 ANA 3	107-4	Shorthand III	Prereq.: 106 or equivalent.	52 E 51	3:00-3:50 10:00-10:50	MTu ThF MTaWTh	223 223
1 E 2	1:00-2:50 6:20-8:10PM	M Th M Th	ANA 3 ANA 3	213-3 B307-4	Typewriting IV Secretarial Practice	Prereq.: 104 or equivalent. Prereq.: 213 and 216.	E 51	8:20-10:10PM	M Th	223
1 E 1	8:20-10:10PM 6:20-8:10PM	M Th M Th	ANA 3 ANB 2	307-4 308-4 313-4 407-4	Secretarial Practice Shorthand V Calculating Machines Office Management	Prereq.: 213 and 216. Prereq.: 216 or equivalent. Prereq.: none. Prereq.: consent of instructor.	Offered at Alton. See Bus Sched. on back cover. E 51	6:20-8:10PM	Tu F	223

SOCIOLOGY (SOC)

TV Lec	12:00-12:45	Tu ThF	SCI 208	101-5	Introductory Sociology KETC Channel 9 TV Lecture or KETC Channel 9 TV Lecture Discussion Discussion Discussion	Prereq.: none. Choose one lecture section and one discussion section.	TV Lec	12:00-12:45	Tu ThF	103
E TV Lec 1 2 E 3	6:45-7:30PM 12:00-12:50 12:00-12:50 7:20-8:10PM	M WTh M W Tu	SCI 208 AUD 1 AUD 1 AUD 2				E TV Lec 51 E 53	6:45-7:30PM 12:00-12:50 12:00-12:50 7:20-8:10PM	M WTh M W Tu	103 220 220 202B
1	10:00-10:50	MTaWThF	ANB 21	102-5	Social Problems	Prereq.: none.				
1	9:00-9:50	TaWThF	HUM 2	241-4	Marriage and Parenthood	Prereq.: 101 or consent of instructor.				
				306-4	Social Control	Prereq.: 101 or consent of instructor.	E 51	6:20-8:10PM	M Th	203

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East St. Louis Campus

SECTION	TIME	DAYS	ROOM	COURSE NO. & CREDIT HOURS	DESCRIPTIVE TITLE	SOCIOLOGY (SOC) (Continued)	REMARKS	SECTION	TIME	DAYS	ROOM
1	8:00-8:50	MTuWTh	ANA 6	320-4	Race and Minority Group Relations	Race and Minority Group Relations	Prereq.: 101 or consent of instructor.	ES 51	6:20-8:10PM 9:00-10:50AM	W Saturday	205 205
ES 1	8:20-10:10PM 11:00-12:50p.m.	W Saturday	SS 1 SS 1	338-4	Industrial Sociology	Industrial Sociology	Prereq.: 101 or consent of instructor.				
Offered at E. St. Louis. See Bus Sched. on back cover.											
				B340-4	The Family	The Family	Prereq.: 101 or consent of instructor. Offered only at East St. Louis.	51	2:00-3:50	M Th	225
				372-4	Criminology	Criminology	Prereq.: 101 or consent of instructor.	E 51	6:20-8:10PM	Tu F	204
E 1	8:20-10:10PM	Tu	SS 1	400-2	Current Sociology	Current Sociology	Prereq.: 8 hours of sociology.	51	8:00-8:50	M W	202B
				427-4	Personality and Social Adjustment	Personality and Social Adjustment	Prereq.: 321 or psychology 305 or consent of instructor.	51	9:00-9:50	MTuWTh	202B
1	1:00-2:50	Tu F	SS 1	B451-4	Social Thought II: The Sociological Movement	Social Thought II: The Sociological Movement	Prereq.: background in 19th century history or literature. Offered once annually and only at Alton.	Offered at Alton. See Bus Sched. on back cover.			
Offered at E. St. Louis. See Bus Sched. on back cover.											
				B482-3	Social Work in Selected Agencies	Social Work in Selected Agencies	Prereq.: 480 or consent of instructor. Offered once annually.	51	10:00-11:25	M Th	202B
Offered at E. St. Louis. See Bus Sched. on back cover.											
				B484-3	Survey Course in Marriage Counseling	Survey Course in Marriage Counseling	Prereq.: 241 and consent of instructor. Offered only at East St. Louis.	51	12:00-1:25	M Th	124A
SPEECH (SPCH)											
TV Lec	12:00-12:30	M W	SCI 208	101-4	Principles of Speech	Principles of Speech	Prereq.: none. Lecture demonstration may be viewed in Room S 208 (Alton) or Room 103 (East St. Louis) or on home receivers, KETC Channel 9. Required for speech majors, elementary and secondary education majors. Also required for associate degree in business.	TV Lec	12:00-12:30	M W	103
E TV Lec	7:30-8:00PM	Tu Th	SCI 208		KETC Channel 9, TV Lecture	KETC Channel 9, TV Lecture		E TV Lec	7:30-8:00PM	Tu Th	103
1	9:00-9:50	W F	ANB 2		Discussion	Discussion		51	10:00-10:50	W F	112
2	10:00-10:50	W F	ANB 1		Discussion	Discussion		52	11:00-11:50	W F	106
3	1:00-1:50	W F	ANB 2		Discussion	Discussion		53	1:00-1:50	W F	106
4	2:00-2:50	W F	ANB 2		Discussion	Discussion		E 54	6:00-7:50PM	W	106
E 5	6:00-7:50PM	M	ANB 22		Discussion	Discussion					
Public Speaking											
1	11:00-11:50	MTu ThF	ANB 2	102-4	Oral Interpretation	Oral Interpretation	Prereq.: 101 or consent of instructor. Required for speech majors.	51	8:00-8:50	MTu ThF	106
Training the Speaking Voice											
				103-4	Oral Interpretation	Oral Interpretation	Prereq.: 101 or consent of instructor.				
				104-4	Training the Speaking Voice	Training the Speaking Voice	Prereq.: none.	51	9:00-9:50	MTu ThF	106
E 1	8:20-10:10PM	M	ANB 1	201-2	Parliamentary Law	Parliamentary Law	Prereq.: 101 or consent of instructor.				
1	10:00-10:50	MTu F	ANB 2	202-3	Principles of Discussion	Principles of Discussion	Prereq.: 101 or consent of instructor.				
1	Arranged	Arranged	Arranged	B209-1	Forensic Activities	Forensic Activities	Prereq.: none.	Offered at Alton. See Bus Sched. on back cover.			

273-4		Basic Radio Production		Prereq.: 101 or consent of instructor.		51	10:00-10:50	MTu	ThF	106
1	1:00-2:50	ANB 2	Radio, TV & Society	Prereq.: 273 or consent of instructor.		Offered at Alton. See Bus Sched. on back cover.				
1	Arranged	Arranged	Readings in Speech	Prereq.: junior standing and consent of instructor.		51	Arranged	Arranged	Arranged	
1	1:00-2:50	ANB 1	Speech Correction for the Classroom Teacher	Prereq.: 101, Recommended for education majors, Same as Ed Sp 428.		Offered at Alton. See Bus Sched. on back cover.				
THEATER (THEA)										
B208-1		Dramatic Activities		Prereq.: none. Credit earned by participation in public performance.		51	12:00-1:50	MTu	ThF	AUD
B308-1		Dramatic Activities		Prereq.: none. Credit earned by participation in public performance.		51	12:00-1:50	MTu	ThF	AUD
B313-4		History of Theater		Prereq.: 101 and junior standing.		51	2:00-3:50	M	Th	106
ZOOLOGY (ZOOL)										
100-5		Principles of Animal Biology		Prereq.: none.						
103-5		General Vertebrate Zoology		Prereq.: 100.		51	3:00-3:50	M	Th	116
303-4		Ornithology		Prereq.: 100. Several Saturday field trips required.						116
306-4		Entomology		Prereq.: 102.						
310-5		Animal Ecology		Prereq.: 102 and 103.						
335-5		Field Zoology		Prereq.: one year of zoology.						
382C-1½		Zoology Seminar		Prereq.: one year of biology. Required each quarter of seniors majoring in zoology.						
407-5		Parasitology		Prereq.: one year of zoology.						
1	10:00-10:50	Tu	Th							
	10:00-11:50	M	W	F						

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SPRING

contin

Quarter Year

of advisement.

(<i>Last</i>)	(<i>First</i>)	(<i>Middle</i>)	(<i>Record Number</i>)
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(Record Number)

(Number and Street) (City and State) (Phone Number)

(Phone Number)

MINORS

[illegible]



Year _____

The student will prepare a program on this form to be presented to his academic adviser at the time of advisement.

STUDENT	(Last)	(First)	(Middle)	(Record Number)
---------	--------	---------	----------	-----------------

ADDRESS

(Number and Street)

(City and State)

(Phone Number)

MAJOR _____ MINORS _____

CLASS _____ Day () Evening () Number of hours student works _____

[illegible]



Quarter _____ Year _____

The student will prepare a program on this form to be presented to his academic adviser at the time of advisement.

[illegible]

ADDRESS

MAJOR _____ MINORS _____

CLASS _____ Day () Evening () Number of hours student works _____

[illegible]



Quarter _____ Year _____

of advisement.

(Record Number)

(Phone Number)

[illegible]



Year

The student will prepare a program on this form to be presented to his academic adviser at the time of advisement.

STUDENT _____
 (Last) (First) (Middle) (Record Number)

ADDRESS _____
 (Number and Street) (City and State) (Phone Number)

MAJOR _____ MINORS _____

CLASS _____ Day () Evening () Number of hours student works _____

[illegible]

Quarter _____ Year _____

STUDENT _____

ADDRESS _____

MAJOR _____ MINORS _____

CLASS _____ Day () Evening () Number of hours student works _____

[illegible]

Quarter _____ Year _____

divisement.

[illegible]

ADDRESS _____ (Number and Street) _____ (City and State) _____ (Phone Number)

MAJOR _____	MINORS _____
-------------	--------------

CLASS _____ Day () Evening () Number of hours student works _____

[illegible]



Quarter _____ Year _____

Year _____ of advisement.

(Record Number)

(Phone Number)

[illegible]





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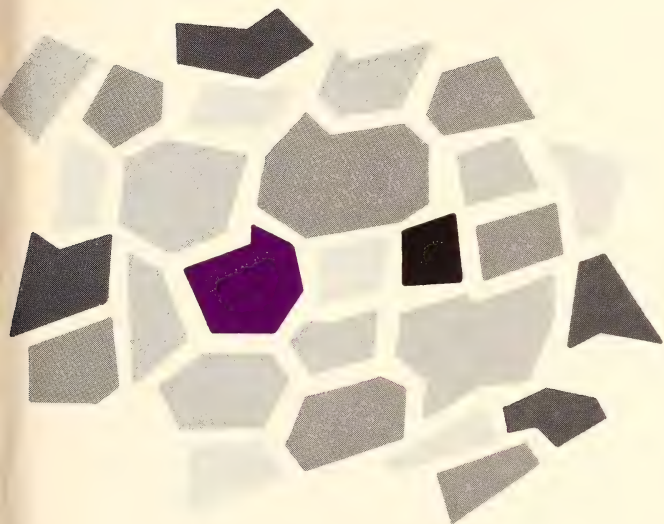
Mr. Warren Stookey, *Field Representative*, Edwardsville, Illinois.

BUS SCHEDULE

DEPART	ARRIVE	DEPART	ARRIVE
EAST ST. LOUIS	ALTON	ALTON	EAST ST. LOUIS
8:00 A.M.	8:50 A.M.	9:00 A.M.	9:50 A.M.
10:00 A.M.	10:50 A.M.	11:00 A.M.	11:50 A.M.
12:00 M.	12:50 P.M.	1:00 P.M.	1:50 P.M.
2:00 P.M.	2:50 P.M.	3:00 P.M.	3:50 P.M.
4:00 P.M.	4:50 P.M.		

Southern Illinois University

Bulletin



General Announcements

EDWARDSVILLE CAMPUSES 1961-62

Axon, East St. Louis, Edwardsville

Objectives of Southern Illinois University

TO EXALT BEAUTY

IN GOD
IN NATURE
AND IN ART;
TEACHING HOW TO LOVE THE BEST
BUT TO KEEP THE HUMAN TOUCH;

TO ADVANCE LEARNING

IN ALL LINES OF TRUTH
WHEREVER THEY MAY LEAD,
SHOWING HOW TO THINK
RATHER THAN WHAT TO THINK,
ASSISTING THE POWERS
OF THE MIND
IN THEIR SELF-DEVELOPMENT;

TO FORWARD IDEAS AND IDEALS

IN OUR DEMOCRACY,
INSPIRING RESPECT FOR OTHERS
AS FOR OURSELVES,
EVEN PROMOTING FREEDOM
WITH RESPONSIBILITY;

TO BECOME A CENTER OF ORDER AND LIGHT

THAT KNOWLEDGE MAY LEAD
TO UNDERSTANDING
AND UNDERSTANDING
TO WISDOM.

General Announcements

Edwardsville Campuses

1961-1962

SOUTHERN ILLINOIS UNIVERSITY BULLETIN
Volume 3 Number 7 September 1, 1961
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The following issues of the *Southern Illinois University Bulletin* may be obtained without charge from General Publications, Southern Illinois University, Carbondale, Illinois.

General Information
Summer Session
Schedule of Classes (Carbondale)
Schedule of Classes (Edwardsville)
General Announcements (Edwardsville)
Graduate School
College of Education
College of Liberal Arts and Sciences
School of Agriculture
School of Applied Science
School of Business
School of Communications
School of Fine Arts
School of Home Economics
University Institutes
Division of Technical and Adult Education

All intending students should have the General Information bulletin (issued once a year), plus the special bulletins of the various educational units in which they are most interested.

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This Bulletin . . .

covers in detail questions concerning the Edwardsville Campuses. It does not cover all questions concerning Southern Illinois University. For complete information about the University the prospective student should refer to the General Information bulletin.

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University Calendar, 1961-1962

SUMMER SESSION

Session Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Final Examinations	Wednesday–Thursday, August 9–10
Commencement	Friday, August 11

FALL QUARTER

New Student Week (Carbondale)	Sunday–Tuesday, September 17–19
New Student Week (Edwardsville)	Saturday–Sunday, September 16–17
Quarter Begins	Wednesday, September 20
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 22–27
Final Examinations	Monday–Saturday, December 11–16

WINTER QUARTER

Quarter Begins	Tuesday, January 2
Final Examinations (Carbondale)	Monday–Saturday, March 12–17
Final Examinations (Edwardsville)	Wednesday–Monday, March 14–19

SPRING QUARTER

Quarter Begins	Monday, March 26
Memorial Day Holiday	Wednesday, May 30
Final Examinations	Wednesday–Tuesday, June 6–12
Commencement (Carbondale)	Wednesday, June 13
Commencement (Edwardsville)	Thursday, June 14

Summer classes begin on Tuesday, June 20. During a quarter, Carbondale day classes begin on the second day of the quarter. Carbondale evening classes (5:45 P.M. or later) begin on the second day. *Classes on the Edwardsville campuses begin on September 21, January 4, and March 28.*

The University

SOUTHERN ILLINOIS UNIVERSITY was established in 1869 as Southern Illinois Normal University. The shortened name became official in 1947 by action of the state legislature.

For some years after its establishment, Southern operated as a two-year normal school. In 1907 it became a four-year, degree-granting institution, though continuing its two-year course until 1936. In 1943 the state legislature changed the institution, which had been in theory exclusively a teacher-training school, into a university, thereby taking official recognition of the great demand in the area for diversified training.

The Graduate School, approved in 1943, at first granted only the Master of Science in Education degree. In 1948 it was authorized to grant also the Master of Arts and Master of Science degrees. In 1952 the Master of Fine Arts degree was added to this list, and in 1955 the Doctor of Philosophy degree was added. The Master of Music and the Master of Music Education degrees were authorized in 1956.

In 1949 the Belleville Residence Center was established and the Alton and East St. Louis residence centers in 1957. In 1958 the Southwestern Illinois Residence Office was created to co-ordinate and direct the University's educational activities in the Madison-St. Clair counties area. In 1959 the Southwestern Illinois campuses were recognized as a unit co-ordinate with the Carbondale campuses.

LOCATION

The general administrative offices for the University's campuses at Carbondale, Southern Acres, and Little Grassy Lake are located at Carbondale. The general administrative offices for the campuses at Alton and East St. Louis are located at Edwardsville, on the site of a newly acquired campus.

The facilities at Carbondale now include more than twenty-five hundred acres of land, thirty-six permanent buildings, and numerous temporary buildings. These buildings house classrooms, auditoriums, laboratories, libraries, offices, living quarters, cafeterias, and farm equipment and animals. The Little Grassy Lake and Southern Acres campuses are each about ten miles from Carbondale.

The facilities of the former Shurtleff College have been leased by the University for the operation of the Alton campus. The East St. Louis campus is located at the former East St. Louis High School Building.

SESSIONS

The academic year is divided into three quarters. Each quarter is approximately twelve weeks in length.

The fall quarter opens near the middle of September and closes just prior to Christmas vacation period. The winter quarter begins early in January and ends about the middle of March. The spring quarter begins the latter part of March and ends about the second week in June. Definite dates for each quarter may be found in the University Calendar.

In addition to the three quarters, there is an eight-week summer session which begins immediately following the close of the spring quarter. The summer session consists of a comprehensive program of courses offered by the departments of the University. In addition to the courses which run the full eight weeks, there are workshops and short courses covering shorter periods of time.

REGULATIONS

The University and its various instructional units reserve the right to change the rules regulating admission, instruction, and graduation; to change courses and fees; and to change any other regulation affecting the student body. Such regulations shall go into force whenever the proper authorities so determine, and shall apply both to prospective students and to those who have enrolled in the University.

Each student must assume responsibility for his progress by keeping an up-to-date record of the courses he has taken and by checking periodically with his adviser and the Registrar's Office. Responsibility for errors

in program or in interpretation of regulations of the University rests entirely upon the student. Advice is always available on request.

A copy of rules and regulations governing student life may be obtained from the Office of Student Affairs on the campus which the student is attending.

Edwardsville Campuses

The first residence center of Southern Illinois University was established in 1949 at Belleville under the auspices of the Graduate School and the Division of University Extension. Limited to an evening program, it offered classes almost exclusively for in-service training of teachers.

In the summer of 1957, a residence center was established at Alton on the former Shurtleff College campus, and in September of the same year a residence center opened in East St. Louis.

During the year 1958-59 the communities of Madison and St. Clair counties joined hands to help provide for the program in southwestern Illinois a large central campus site, located southwest of Edwardsville on bypass 66. The central administrative offices of the Edwardsville campuses—including the offices of the President, Vice-President, Dean, Registrar, Business Operations, Personnel, and the Library—are housed on this central campus site.

In Alton eight permanent buildings form the nucleus of a 40-acre campus. Nine additional buildings have been prepared on a temporary basis to meet the needs of an expanded undergraduate and graduate program.

The East St. Louis center occupies two city blocks facing Ohio Street at Ninth and Tenth. Laboratories, classrooms, libraries, and other facilities of a former senior high school have been redesigned and re-equipped to provide for a comprehensive undergraduate and graduate program at this campus.

PROGRAMS OF INSTRUCTION

The academic organization of the Edwardsville campuses comprises six major divisions of instruction, with a number of major programs in each division.

Following are fields of study listed by academic unit.

BUSINESS DIVISION:

Accounting	Marketing
Economics	Secretarial Science
Management	

EDUCATION DIVISION:

Administration	Guidance
Elementary	Health Education
Industrial	Instructional Materials
Secondary	Physical Education
Special	Psychology

FINE ARTS DIVISION:

Art	Speech
Music	Theater

HUMANITIES DIVISION:

English	Journalism
Foreign Languages	Philosophy

SCIENCE AND TECHNOLOGY DIVISION:

Applied Science	Mathematics
Astronomy	Physics
Botany	Physiology
Chemistry	Zoology

SOCIAL SCIENCES DIVISION:

Anthropology	History
Geography	Sociology
Government	

Students desiring to pursue an advanced degree should refer to the Graduate School bulletin.

Preprofessional students may obtain, subject to certain conditions, a bachelor's degree after three years' work (144 quarter hours) in Southern and one or more years' work in a professional school. During their three years of residence at Southern they need to have completed all requirements other than elective hours for the bachelor's degree which they are

seeking. In some cases the completion of major and minor requirements is possible by their taking certain courses at the professional school, but this is permitted only upon the prior approval of the appropriate divisional head. Also, there needs to be completion of at least one year of professional work with acceptable grades in a Class A medical school, a Class A dental school, a Class A veterinary school, or an approved law school. In all cases, all University graduation requirements must be met. It is advisable for a student interested in this program to make his decision to seek a bachelor's degree before entering the professional school so that any questions may be clarified at an early date.

COMPLETE DETAILS concerning admission, tuition, fees, housing, financial assistance, and student employment are given in the General Information bulletin. For a free copy write to General Publications, Southern Illinois University, Carbondale, Illinois.

ADMISSION TO THE UNIVERSITY

All inquiries concerning admission to the Edwardsville campuses of Southern Illinois University should be directed to the Registrar's Office, Southern Illinois University, Edwardsville, Illinois. Applications for admission are accepted any time during the calendar year. Applications should be initiated at least thirty days in advance of the desired entrance date to permit the necessary work of processing to be completed. High school seniors should apply for admission at the beginning of the last semester of the senior year.

Admission to Southern Illinois University constitutes admission to a particular division or instructional unit except in the case of a person who is admitted as an unclassified student.

Many students find it helpful to visit the campus prior to making application for admission. The University encourages such visits and welcomes interviews with prospective students.

Students desiring to pursue a master's degree program through the Edwardsville campuses should refer to the Graduate School bulletin and consult with the Graduate Office at Alton or East St. Louis.

For regulations and procedures, see the General Information bulletin of Southern Illinois University.

TUITION AND FEES

At the present time legal residents of Illinois registered for more than eight hours pay a total of \$61.50 per quarter. This includes \$42.00 tuition, a \$5.00 book rental fee, a \$5.00 student union building fund fee, and a \$9.50 student activity fee. Out-of-state students pay an additional \$50.00 tuition, or a total of \$111.50. Students registered for eight hours or fewer pay one-half tuition, one-half book rental fee, and full student union building fund fee; they have the option of paying the student activity fee.

ADVISEMENT FOR REGISTRATION

To insure that an undergraduate student is properly advised on a course of study which will both broaden his background and prepare him for his chosen career, the University has made academic advisement a major concern of a chief academic adviser (at each center) and his staff and the division heads and their staffs. Advisement for graduate students has been made the responsibility of the assistant to the Dean for Graduate Study.

Advisement sessions for the new freshmen are held as part of New Student Week each fall quarter. New transfer students should plan to meet with an adviser in their major fields prior to their initial registration; appointments can be initiated by calling the Office of Academic Advisement. Several weeks before their initial registration, new graduate students should make appointments for advisement with the Graduate Office.

To plan his program for the succeeding quarter, each student should, late every quarter, have a short conference with his major adviser; those students not assigned to major advisers will be advised in the Office of Academic Advisement.

REGISTRATION INFORMATION

Registration for classes on the Edwardsville campuses is completed at the Alton and East St. Louis centers. A central registration period is planned at the beginning of each quarter. Students will register for classes at the center which they plan to attend. All students will register in accordance with the alphabetical time table set up for each classification.

The registration calendar for each quarter will be announced in the Schedule of Classes.

GENERAL REQUIREMENTS FOR THE BACHELOR'S DEGREE

Each candidate for the degree must complete 192 hours of credit in approved courses. At least 64 must be in senior college courses, of which 48 must be earned in residence at Southern. Each student must have a "C" average and grades not lower than "C" in subjects aggregating at least three-fourths of the work. A "C" average is required in the major subject. These averages are required for credit made at Southern as well as for the total record.

A transfer student must present either a total of three years work (144 hours) earned at Southern or 48 senior college hours earned at Southern, 16 of which may be earned in extension.

The following requirements should be met within the first two years of attendance except those students working toward their Bachelor of Music Education and Bachelor of Music degrees.

REQUIREMENTS	HOURS	COURSES
Social Studies	20	Economics 205, Geography 100, Government 190, History 101, 102, 103, 201, 202, Sociology 101 (a minimum of 4 hours work in four of the five areas)
Humanities	18	
English	(9)	English 101, 102, 103
English	(6)	English 205, 206, 209, 211, 212
Art or Music	(3)	Art 120, Music 100
Biological Sciences	9	
Health Education	(4)	Health Education 100
Botany or Zoology	(5)	Botany 101, 202, Zoology 100
Mathematics and Physical Sciences	12	Chemistry, physics, and mathematics (work in two of the three areas)
Practical Arts and Crafts	3	Agriculture, business, home economics, industrial education (not required if the student has had any of this work in high school)
Physical Education	3	Activity courses
TOTAL	<u>65</u>	

Bachelor of Music Education degree candidates must meet all of the above requirements except the taking of Art 120 or Music 100.

Bachelor of Music degree candidates should meet the following general degree requirements within the first two years of attendance.

REQUIREMENTS	HOURS	COURSES
Social Studies	15	Economics 205, Geography 100, 300, Government 101, 190, 300, History 101, 102, 103, 201, 202, Sociology 101 (work in four of the five departments)
Humanities	18	
English	(9)	English 101, 102, 103
Foreign Language	(9)	One year of a foreign language
Biological Sciences	4	Health Education 100
Physical Sciences	4	Physics 101
Physical Education	3	Activity courses
TOTAL	<u>44</u>	

Proficiency in English—Because of the importance of written and oral communication, each full-time student must enroll each quarter in Freshman Composition until the required sequence 101, 102, and 103 has been satisfactorily passed. Transfer students will be granted English proficiency credit only in those composition courses in which they have received a grade of “C” or better at an accredited institution. (Proficiency credit in courses with grades lower than “C” will be at the disposition of the English faculty, approved by the Head of the Humanities Division.)

In addition to the general bachelor’s degree requirements required of all University students, a person working toward a bachelor of arts must have the following:

(1) Foreign Language—A reading knowledge of a foreign language, ordinarily requiring nine hours of university study or its equivalent. Students in certain areas of Fine Arts (as stated in the Fine Arts section of this bulletin) are also required to demonstrate competency in a foreign language or languages. All students are urged to study at least one year of a foreign language—preferably two.

(2) Philosophy or Psychology—Students working toward a Bachelor of Arts degree complete a minimum 4 hours of credit in either philosophy or psychology.

(3) A major of at least 42 hours and a minor of at least 24 hours. Some divisions require more.

Special Requirements—Additional requirements for the bachelor's degree are listed in this bulletin along with the requirements for the major and/or minor concentration.

Degree candidates are expected to follow the basic program set out here, plus the advanced work recommended by the department in which the student expects to do his major work. If the student intends to take his degree elsewhere, the adviser may recommend changes in these requirements in favor of those of the institution from which the student plans to be graduated. If the student changes his mind and decides to take his degree at Southern, none of the above requirements can be waived.

Students may satisfy any of the above requirements by passing non-credit attainment tests. (These tests, which may be taken only one time, must be applied for before the middle of the quarter in which the noncredit pass is to appear on the students record.) In some cases, more advanced work may be substituted for the required courses listed. Students who transfer in the junior or senior years may substitute senior college courses in most departments for the freshman-sophomore courses listed previously.

The physical education required can be waived only by the Graduation Appeals Committee upon the recommendation of the University Physician. Waiver procedure should be initiated early in the student's college course and in no case later than the end of the sophomore year. Students thirty years of age or older are not subject to this requirement.



Instruction

AT THE PRESENT TIME the academic organization of the Edwardsville campuses is patterned on a divisional rather than a departmental structure. There are six divisions. Under each are listed the types of courses offered by the division, the instructional personnel, the courses (with their prerequisites) to be offered at Alton and/or East St. Louis, and statements about majors, minors, and specializations. The Schedule of Classes (Edwardsville) will indicate the specific offerings of the fall, winter, spring, and summer sessions for both the day and evening college programs. Additional courses may be scheduled where student demand is sufficient.

Courses numbered 000-099 do not fall within freshman, sophomore, junior, senior or graduate levels. Those numbered 100-199 are primarily for freshmen, 200-299 for sophomores, 300-399 for juniors, 400-499 for seniors and graduates, and 500 for graduates only. The number after the dash in the course descriptions indicates the hours of credit for the course.

Courses offered by the Edwardsville campuses are in most cases the same as those offered on the Carbondale campuses. Certain course numbers in this bulletin refer to courses taught on the Carbondale campuses only. For descriptions of these, consult the bulletins of the appropriate school or college.

BUSINESS DIVISION

Accounting; Economics; Management; Marketing; Business and Secretarial Education

The Business Division seeks to prepare the student for successful performance in the business world. Opportunity is provided for the student to gain a knowledge of the operational phases of business and a familiarity with the sources of information and methods of collecting and interpreting data. The programs seek to develop in the student an understanding of, and a

skill in, the art of human relations and a high sense of integrity and responsibility.

Professor Walter L. Blackledge, Ph.D. (Iowa)	1959
Associate Professor Mary Margaret Brady, Ed.D. (New York)	1957
Associate Professor Leo Cohen, Ph.D. (California)	1959
Associate Professor John J. Glynn, Ph.D. (St. Louis), Head	1957
Associate Professor Richard J. Milles, M.S. in C. (St. Louis)	1960
Associate Professor Joe R. Small, M.B.A. (Kansas)	1958
Associate Professor Dimiter E. Wassen, Dr. rer. Pol. (Vienna)	1959
Assistant Professor Richard L. Davison, M.S. (Illinois)	1959
Assistant Professor David C. Luan, Ph.D. (Texas)	1960
Assistant Professor Norbert V. Schmitt, M.S. in C. (St. Louis)	1958
Assistant Professor Thomas E. VanDahm, Ph.D. (Michigan)	1960
Assistant Professor Clarence E. Vincent, D.B.A. (Indiana)	1960
Instructor Robert E. McDaniel, M.S. (Southern Illinois)	1958
Instructor Virgil I. Pinkstaff, M.A. (Washington University)	1957
Instructor Karl A. Sauber, B.S. (Kent State)	1960
<hr/>	
Lecturer Daniel B. Bosse, M.B.A. (Indiana)	1959-61
Lecturer Dona F. Frost, M.S. (North Dakota)	1961-62
Lecturer John Ingwersen, M.B.A. (New York)	1961
Lecturer Richard Newton McKinnay, B.S.	1961-62
Lecturer Samuel R. Reid, M.S. in C. (St. Louis)	1959
Lecturer Ann S. Schwier, Ph.D. (St. Louis)	1960-62
Lecturer Paul J. Skerseth, M.B.A. (Indiana)	1960-62

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN BUSINESS

Each candidate for the Bachelor of Science degree in business must satisfy the general requirements for the bachelor's degree as well as basic requirements in business administration and requirements for the specialization.

Where the requirements under each of the programs (as shown in the individual area) of the division total less than 192 hours, the difference is to be made up with electives chosen by the student guided by his academic adviser. The electives should be chosen so that the student has at least 40 per cent (77 hours) of his total credit in the Business Division and at least 40 per cent outside of the area.

The Bachelor of Science degree may be earned in the Business Division with the following majors: accounting, economics, management, and marketing. The Bachelor of Arts degree may be earned with a major in economics. The Bachelor of Science in Education degree may be earned with a major in economics or in secretarial and office management.

A major in any one of the specialized fields normally requires eight to ten additional courses above the basic business administration requirements. In cases where substitution is necessary, the student must have the approval of his major adviser and of the division head.

ACCOUNTING

Accounting is the means by which the many transactions of business are analyzed, recorded, presented, and interpreted. The ability to analyze, present, and interpret is not acquired easily; it is one that takes thorough and serious study.

The accounting program is designed to develop those abilities which lead to professional positions in cost accounting, auditing, income tax, financial statement analysis, and general financial accounting. The operation of a business and its financial condition are of interest to its owners, to its employees, to its creditors, to the various governmental bodies, and to the public.

The accounting curriculum is designed to cover four basic areas of study: theory, cost accounting, tax, and auditing. In addition to the four basic areas, special courses are offered in governmental accounting, accounting systems, and Certified Public Accountant problems. Although individuals trained in accounting might work in private industrial firms, public accounting firms, governmental agencies, or in college teaching, the four basic areas in accounting are needed as background. Those individuals desiring to engage in public accounting in Illinois should familiarize themselves with the Illinois laws and regulations covering the certification of certified public accountants. The regulations are published by the Committee on Accountancy, University of Illinois, Urbana, Illinois.

SUGGESTED CURRICULUM FOR THE BACHELOR OF SCIENCE DEGREE

The following courses constitute a major in accounting.

<i>General degree courses required</i>	<i>Hours</i>
Art 120 or Music 100	3
Botany 101 or Zoology 100	5

Chemistry 101 or Physics 101	4
English 101, 102, 103	9
English 205, 206, 209, 211, 212 (two of the five)	6
Geography 211	5
Government 190	5
Health Education 100	4
History 201 or Sociology 101	5
Mathematics 106, 107b ¹	8
Physical education activity courses	3
Speech 101	4
<hr/>	
Total hours of general degree courses required	61
<i>Business Division courses required</i>	<i>Hours</i>
Accounting 251, 252, 253, 331, 341, 351, 352, 353, 356, 442	41
Accounting 355, 432, 458, 459, 461 (one of the five)	3-4
Economics 205, 206, 307, 315, 317 or 470	20-21
Management 170, 271, 320, 340 or 380, 371, 372 or 373	25
Marketing 230	5
<hr/>	
Total hours of Business Division courses required	94-96
Total hours of general degree courses required	61-61
Electives	37-35
<hr/>	

Total hours for a bachelor's degree 192

A minor in accounting consists of 251, 252, 253, plus 8 hours of senior credit courses (300-499) in accounting and Management 170.

COURSE DESCRIPTIONS

Courses on the 200 and 300 level are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students.

251-4, 252-4, 253-4. **ELEMENTARY ACCOUNTING I, II, III.** Principles and practices in handling transactions in books of original entry and books of accounts—trial balances, adjustments, and financial statements—for proprietorships, partnerships, and corporations. Basic problems concerning statement analysis, presentation, and interpretation.

301-1 to 6. **ACCOUNTING READINGS.** Directed readings in books and periodicals in a defined field, under supervision of one or more staff members. Periodic written and oral reports are required. Prerequisite: junior standing and consent of division head.

309-2. **INCOME TAXES FOR INDIVIDUALS.** Preparation of income tax returns. Federal income tax law as applied to individuals. Not open to accounting majors.

¹ Higher mathematics courses may be taken depending upon placement test scores.

- 331-5. **TAX ACCOUNTING.** Study of accounting principles and procedures for meeting requirements of current laws and regulations which relate to federal income tax and social security taxes. Laboratory problems and preparation of tax returns with special emphasis on the individual taxpayer. Prerequisite: 253.
- 341-3. **COST ACCOUNTING.** Departmental, job order, and process cost. Accumulation of material and labor costs; factory overhead and its allocation; cost reports to management—their preparation and use. Prerequisite: 253.
- 351-4, 352-4, 353-4. **ADVANCED ACCOUNTING I, II, III.** Accounting principles and procedures for the preparation of adequate financial statements. Special attention given depreciation, appraisals, investments, intangibles, installment sales, consignments, branch accounts, sinking funds, annuities, leaseholds, and bonds. Preparation and use of special statements, application of funds, statement of affairs, and consolidated statements. Prerequisite: 253.
- 355-3. **GOVERNMENTAL ACCOUNTING.** Budget and operating fund accounts, with emphasis on accounting control as a means of improving administration of public enterprises. Prerequisite: 253.
- 356-5. **AUDITING.** Procedures and practices of public accountants in verifying accounts and supplementary data; training in preparation and analysis of reports. Prerequisite: 353 or consent of instructor.
- 432-4. **PROBLEMS IN FEDERAL TAXATION.** Study of income tax problems which arise from partnership, corporation, estate, and trust type of organization. Brief study of federal estate and gift taxes. Student does research in source materials in arriving at solutions of complicated tax problems. Prerequisite: 331.
- 442-4. **ADVANCED COST ACCOUNTING.** Standard costs and distribution costs. Special problems in cost accounting, including joint product, by-product, and capacity costs. Prerequisite: 341.
- 458-4. **ACCOUNTING SYSTEMS.** Problems in accounting systems design and installation. Examination of existing systems and practice in system design. Prerequisite: 341 and 353.
- 459-4. **INTERNSHIP IN ACCOUNTING.** Supervised work experience in professional accounting. Prerequisite: outstanding record in accounting and recommendation of the committee on internship.
- 461-4. **C.P.A. AND ADVANCED ACCOUNTING PROBLEMS.** A problems course, using problems from the examinations sponsored by the American Institute of Certified Public Accountants and given in the last few years. Some problems also drawn from other sources. Prerequisite: 341 and 353.

ECONOMICS

Courses in economics will help students understand the principles concerning the production and distribution of goods and services. Important but controversial issues, such as depression, inflation, labor unions and

business monopoly, tariffs, and government spending, are discussed and analyzed.

Training in economics will prepare an individual for a position in private industry, government service, or teaching. Business and governmental agencies employ economists in management training programs, research, and administrative positions. Economics also provides an excellent background needed for the individual's understanding and evaluation of economic policy of government.

Students interested in economics, as a major or minor, may pursue a somewhat concentrated study in such fields as money and banking, industrial relations, finance, or international trade. The over-all sequence of courses, including those in related areas such as business, education, psychology, mathematics, and government, should be planned in co-operation with an adviser in the Business Division.

SUGGESTED CURRICULUM FOR THE BACHELOR OF SCIENCE DEGREE

The following courses constitute a major in economics.

<i>General degree courses required</i>	<i>Hours</i>
Art 120 or Music 100	3
Botany 101 or Zoology 100	5
Chemistry 101 or Physics 101	4
English 101, 102, 103	9
English 205, 206, 209, 211, 212 (two of the five)	6
Geography 211	5
Government 190	5
Health Education 100	4
History 103, 201 or 202	8
Mathematics 106, 111 or 220	9
Philosophy 120	2
Physical education activity courses	3
	—
Total hours of general degree courses required	63
 <i>Business Division courses required</i>	 <i>Hours</i>
Accounting 251, 252, 253	12
Economics 205, 206, 307, 310, 315, 317, 328, 330	33
Economics 418, 440, 450, 451, 470, 481	19
Management 320, 340, 371, 380, 473	21

Marketing 230	5
	—
Total hours of Business Division courses required	90
Total hours of general degree courses required	63
Electives	39
	—
Total hours for a bachelor's degree	192

Required courses constituting a minor in economics are Economics 205, 206, 307, 315, 317, 310 or 328 or 330; Accounting 251.

SUGGESTED CURRICULUM FOR THE BACHELOR OF ARTS DEGREE

In addition to the general degree courses required, the following courses constitute a major in economics: 205, 206, 307, 310, 315, 317, 328, 330, 418, 440, 450, 470, 481; Accounting 251; Mathematics 111 or 220.

Required courses constituting a minor in economics are Economics 205, 206, 307, 315, 317, 310 or 328 or 330; Accounting 251.

SUGGESTED CURRICULA FOR THE BACHELOR OF SCIENCE IN EDUCATION DEGREE

In addition to the general degree requirements, the following courses constitute a 48-hour major in economics: 205, 206, 307, 310, 315, 317, 328 or 330, 418, 440 or 450 or 451 or 470, 460 or 481; Accounting 251; Marketing 230.

In addition to the general degree requirements, the following courses constitute a 36-hour major in economics: 205, 206, 307, 315, 317, 310 or 328 or 330, 418, 460 or 470 or 481.

Required courses constituting a minor in economics are 205, 206, 307, 315, 317, 310 or 328 or 330; Accounting 251.

COURSE DESCRIPTIONS

Courses on the 200 and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students.

205-5. SURVEY OF ECONOMIC PRINCIPLES.

206-4. ECONOMIC PRINCIPLES AND PROBLEMS. Prerequisite: 205.

301-1 to 6. ECONOMIC READINGS. Reading in books and periodicals in a defined field, under direction of one or more staff members. Periodic written and oral reports. Prerequisite: consent of division head.

307-4. ECONOMIC AND BUSINESS STATISTICS I. Prerequisite: 205; recommended, Mathematics 106.

308-4. ECONOMIC AND BUSINESS STATISTICS II. 3 hours lecture; 2 hours laboratory. Prerequisite: 307 or consent of instructor.

- 310-4. LABOR PROBLEMS. Prerequisite: 206, or 205 and consent of instructor.
- 315-4. MONEY AND BANKING I. Prerequisite: 205.
- 317-4. ECONOMIC HISTORY OF THE UNITED STATES. Prerequisite: 205.
- 328-4. INTERNATIONAL ECONOMICS I. Prerequisite: 206, or 205 and consent of instructor.
- 330-4. PUBLIC FINANCE I: NATIONAL. Prerequisite: 206, or 205 and consent of instructor.
- 411-4. COLLECTIVE BARGAINING AND DISPUTE SETTLEMENT. Nature, issues, procedures, economic effects. Analysis of actual collective bargaining situations. Prerequisite: 310 or consent of instructor.
- 416-4. MONEY AND BANKING II. Emphasis upon the Federal Reserve and other banking systems. Prerequisite: 315 or consent of instructor.
- 418-4. ECONOMIC HISTORY OF EUROPE. A survey of the economic growth of Europe with emphasis upon the development of European agriculture, industry, finance, and international trade since 1750. Prerequisites: 205, 206, or consent of instructor.
- 432-3. FISCAL POLICY OF THE UNITED STATES. Countercyclical, secular, and emergency use of government expenditures, debt, taxes. Prerequisites: 205, 206, or consent of instructor.
- 436-3. GOVERNMENT AND LABOR. A study of labor relations and legislation considering both constitutional and economic aspects. Prerequisites: 205; Government 101 or 190 or 231 or 300 or consent of instructor.
- 440-3. INTERMEDIATE THEORY. A more intensive treatment of price and income theory. Prerequisite: 206, or 205 and consent of instructor.
- 450-3. HISTORY OF ECONOMIC THOUGHT. Great economists and the development of economic theory. Prerequisites: 205, and 206 or consent of instructor.
- 451-3. ECONOMIC THEORIES. A study of the theories of the recent leading economists. Prerequisite: 450 or consent of instructor.
- 460-4. RUSSIAN ECONOMY. A study of the development of Russian trade, agriculture, industry, government, finance, and standards of living in successive periods in relation to the historical, geographic, economic, and ideological background. Prerequisite: 205 or consent of instructor.
- 470-3. BUSINESS CYCLES. Major business fluctuations in the United States—prices, employment, production, credit, inflation and deflation, and government action during the cycles. Prerequisite: 315 or consent of instructor.
- 481-3. COMPARATIVE ECONOMIC SYSTEMS. Capitalism, socialism, fascism, and other forms of the economy. Prerequisite: 205 or consent of instructor.
- 490-4. WORKSHOP IN ECONOMIC EDUCATION. (Same as Secondary Education 490.) Designed to assist elementary and secondary school teachers in promoting economic understanding through the translation of economic principles and problems into classroom teaching materials.

MANAGEMENT

Courses are offered in these areas of management: general business, finance, and personnel management. Students who do not wish to specialize

will select the first area. The latter two areas are more restrictive in their requirements. The objective is to provide a broad, general, liberal educational experience rather than a narrow professional training.

SUGGESTED CURRICULUM FOR THE BACHELOR OF SCIENCE DEGREE

The following courses constitute a major in management.

<i>General degree courses required</i>	<i>Hours</i>
Art 120 or Music 100	3
Botany 101 or Zoology 100	5
Chemistry 101 or Physics 101	4
English 101, 102, 103	9
English 205, 206, 209, 211, 212 (two of the five)	6
Geography 211	5
Government 190	5
Health Education 100	4
History 201 or Sociology 101	5
Mathematics 106, 107b ¹	8
Physical education activity courses	3
Speech 101	4
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Total hours of general degree courses required	61

Business Division courses for specialization in GENERAL BUSINESS

Accounting 251, 252, 253	12
Economics 205, 206, 307, 310, 315, 317 or 470	24-25
Management 170, 271, 320, 327, 340, 361, 371, 372 or 373	32
Management 380, 385, 421, 473, 479	20
Marketing 230	5
Marketing 334, 341, 438 (one of the three)	4
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Total hours required in the specialization	97-98
Total hours of general degree courses required	61
Electives	34-33
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Total hours for a bachelor's degree 192

Business Division courses for specialization in FINANCE

Accounting 251, 252, 253	12
Economics 205, 206, 307, 310, 315, 317 or 470	24-25

¹ Higher mathematics may be taken depending upon placement test scores.

Management 170, 271, 320, 323, 327, 328, 340 or 380	28
Management 361, 371, 372 or 373, 385, 421, 475	23
Marketing 230	5
Marketing 334, 341, 438 (one of the three)	4
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Total hours required in the specialization	96-97
Total hours of required general degree courses	61
Electives	35-34
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Total hours for a bachelor's degree	192

Business Division courses for specialization in PERSONNEL

Accounting 251, 252, 253	12
Economics 205, 206, 307, 310, 315, 317 or 470	24-25
Management 170, 271, 320, 340, 361, 371, 372 or 373	28
Management 380, 385, 480, 481, 485	20
Management 382 or Economics 411	3-4
Marketing 230	5
Psychology 201, 321, 322 or 323	12
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Total hours required in the specialization	104-106
Total hours of required general degree courses	61-61
Electives	27-25
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Total hours for a bachelor's degree	192

Requirements for a minor in management with a specialization in finance include 170, 320, 323, 327, 340; Accounting 251.

Requirements for a minor in management with a specialization in general business include 170, 320, 340, 371; Accounting 251; Marketing 230.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students.

- 170-4. INTRODUCTION TO BUSINESS ADMINISTRATION. A survey of business, intended to give to the student a general knowledge of the modern business world, a better basis for choosing his specialty, and certain information not covered in the various specialized courses offered.
- 271-4. BUSINESS WRITING. Principles and practice in writing typical kinds of business correspondence and reports. Prerequisite: English 103.

- 301-1 to 6. **MANAGEMENT READINGS.** Reading in books and periodicals in a defined field, under direction of one or more staff members. Periodic written and oral reports. Prerequisite: consent of division head.
- 320-5. **CORPORATION FINANCE.** Financial structure in industry, sources of capital, regulation of securities, stock exchanges, and the Security and Exchange Commission; dividend and other financial policies. Interpreting corporation reports and evaluating securities through the analysis of financial statements. Prerequisites: Accounting 253, Economics 205.
- 323-4. **INVESTMENTS.** Survey of the problems and procedures of investment management; types of investment risks; security analysis; investment problems of the individual as well as the corporation. Prerequisite: 320.
- 327-4. **GENERAL INSURANCE.** Underlying principles and functions of insurance in the economic life of the individual and of business. Prerequisites: Accounting 253, Economics 206.
- 328-3. **REAL ESTATE.** Purchasing, financing, owning, developing, improving, assessing, maintaining, zoning, subdividing, conveying, managing, operating in a real estate business; the influence of recent court decisions on real estate.
- 340-4. **BUSINESS ORGANIZATION AND MANAGEMENT.** Theory and practice. Prerequisite: junior standing or consent of instructor.
- 361-3. **BUSINESS REPORT WRITING.** Discussion, illustration, and practical application of report writing techniques, including study of uses, forms, and structures of different types of reports.
- 371-4. **BUSINESS LAW I.** Introduction to law, contract law, and agency law.
- 372-4. **BUSINESS LAW II.** Real property law, personal property law, partnership law, and corporation law.
- 373-4. **BUSINESS LAW III.** Negotiable instrument law, sales law, suretyship law, and insurance law.
- 380-4. **PRODUCTION MANAGEMENT.** Plant location, design, and construction; internal organization for operations, production control, stores control, routing of materials, job analysis, and time study; wage systems, subdivision of executive responsibilities and duties; methods of co-ordination and planning. Prerequisite: Economics 206.
- 382-3. **TIME AND MOTION STUDY.** Principles and methods for simplifying work and establishing sound time-allowances for performance.
- 385-4. **PERSONNEL MANAGEMENT.** Relation of the human element to production; the art of securing understanding and co-operation; employee organizations and outside activities; work of the personnel department; wage standards and working conditions. Prerequisite: Economics 206.
- 421-4. **MANAGEMENT OF BUSINESS FINANCE.** The principal problems of managing the financial operations of an enterprise with emphasis upon analysis and solutions of problems pertaining to policy decisions. The scope includes both short-term working capital and long-term financing. Prerequisite: 320.
- 472-4. **SMALL BUSINESS.** The position of small business in our national economy, including the organization, financing, location, personnel policies, merchandising practices, records, government regulation, and taxes.

- 473-4. BUSINESS ENTERPRISE AND PUBLIC POLICY. Some of the major problems of social control of business arising out of the operation of business in modern society; covering types of control, necessity and effects of control. Prerequisite: senior standing.
- 475-4. BUDGETING AND SYSTEMS. Budgeting and systems as aids in coordinating and directing business operation. Prerequisites: 320, Accounting 253.
- 479-2 to 8. PROBLEMS IN BUSINESS AND ECONOMICS. Application of economic theory to practical business problems. Open to majors in business administration or economics who have senior standing.
- 480-4. SEMINAR IN LABOR LAW. An analysis of the constitutional aspects and recent cases that have arisen interpreting the Taft-Hartley Act, Fair Labor Standards Act, Fair Employment Practice Laws, and "right-to-work" laws. Prerequisite: two quarters of business law or Economics 310.
- 481-4. ADMINISTRATIVE MANAGEMENT. An intensive study of the principles of management and their application to the current industrial setting. Lecture and case methods are used. Prerequisite: 340.
- 483-4. ADVANCED PRODUCTION MANAGEMENT. Internal problems of managerial control of production including recent developments in theory and techniques; case material utilized for the development of analytical ability. Prerequisite: 380.
- 485-4. PROBLEMS IN PERSONNEL MANAGEMENT. Analysis of problems in personnel administration arising from current developments in organization and techniques; case problems and special reports. Prerequisite: 385.
- 595-4. SEMINAR IN PERSONNEL MANAGEMENT. Study of recent developments in personnel management. Individual reports, book reports, and survey of current professional literature form the bases of the course. Prerequisite: 485 or consent of instructor.

MARKETING

Marketing, which includes all activities concerned with determining and satisfying consumer desires, is rapidly becoming a major function in the business process. From the initial determination of consumer desires through the medium of market research to the final step of putting products into the consumer's hands through personal salesmanship, marketing knowledge and techniques provide the tools for developing and distributing goods and services in the dynamic economy of today and the future.

The area of marketing offers a variety of courses that prepare the future marketer for his role in American business. Students who major in marketing have a variety of courses in sales, advertising, marketing management, transportation, retailing, wholesaling, and market research. Additional senior-level or graduate courses are offered to prepare the student for more specialized positions in marketing management.

SUGGESTED CURRICULUM FOR THE BACHELOR OF SCIENCE DEGREE

The following courses constitute a major in marketing.

<i>General Degree Courses Required</i>	<i>Hours</i>
Art 120 or Music 100	3
Botany 101 or Zoology 100	5
Chemistry 101 or Physics 101	4
English 101, 102, 103	9
English 205, 206, 209, 211, 212 (two of the five)	6
Geography 211	5
Government 190	5
Health Education 100	4
History 202 or Sociology 101	5
Mathematics 106, 107b ¹	8
Physical education activity courses	3
Psychology 201	4
Speech 101	4
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Total hours of general degree courses required	65
<i>Business Division Courses Required</i>	
Accounting 251, 252, 253	12
Economics 205, 206, 307, 315, 317 or 470	20-21
Management 170, 320, 340, 361, 371, 373	24
Marketing 230, 331, 333, 334, 336, 337, 341, 349 or 384	31-32
Marketing 332, 438, 451, 463 (any two)	7-8
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Total hours required in the major	94-97
Total hours of general degree courses required	65-65
Electives	33-30
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Total hours required for a bachelor's degree	192

Requirements for a minor in marketing with a specialization in general marketing include 230, 331 or 332, 333, 337, 341; Accounting 251.

Requirements for a minor in marketing with a specialization in sales and advertising include 230, 333, 337, 384, 438, and 463.

Requirements for a minor in marketing with a specialization in retailing include Marketing 230, 331, 332, 333, 334, and 337.

¹ Higher mathematics courses may be taken depending upon placement test scores.

Requirements for a minor in marketing with a specialization in industrial marketing include 230, 333, 334, 336, 337, 341, and 349.

COURSE DESCRIPTIONS

Courses on the 200 and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students.

- 230-5. **PRINCIPLES OF MARKETING.** A general survey course to acquaint the student with the entire field of marketing. Consideration is given to the underlying economic principles; historical development of distributive systems, channels, agents, institutions, functions, policies, and principles. Prerequisite: Economics 205 or consent of instructor.
- 301-1 to 6. **MARKETING READINGS.** Readings in books and periodicals in a defined field, under the direction of one or more staff members. Periodic written and oral reports. Prerequisite: consent of division head.
- 331-4. **RETAILING.** Principles underlying the evolution, organization, and operation of retailing, including techniques used and opportunities offered in this field.
- 332-4. **STORE MANAGEMENT.** Store management; organization, location; layout. Procedures in receiving goods, handling sales; packing; wrapping; customer complaints; telephone orders, etc. Prerequisite: 331.
- 333-4. **PRINCIPLES OF ADVERTISING.** Advertising fundamentals in relation to modern business activities; fields of advertising; advertising media, campaigns, and systems. Prerequisite: 230.
- 334-4. **CREDITS AND COLLECTIONS.** Organization and operation of the credit department, including the sources and analysis of credit information, collection methods, and correspondence. Retail credit management emphasized. Prerequisite: 230.
- 336-3. **PURCHASING.** Dealer-supplier relationship, in manufacturing, wholesaling, and retailing. Purchasing for resale and for consumption. Influence in sales promotion materials. Buying from single and multiple suppliers. Prerequisite: 230.
- 337-4. **PRINCIPLES OF SALESMANSHIP.** History, scope, and importance of selling in modern business; the sales department; the salesman's part in the selling process. Prerequisite: 230.
- 341-4. **TRANSPORTATION.** Evolution of American transportation systems, and of the current problems of transportation facilities in connection with governmental control and regulation. Prerequisite: 230.
- 349-3. **WHOLESALE.** Evolution, economic status, and management of non-retail marketing. Position of wholesaling in distribution. Kinds of wholesaling; types of middlemen; internal organization and operation of wholesalers; trading areas. Analyze relationship between marketing policies of wholesaler and manufacturer and changing patterns of wholesale distribution. Prerequisite: 230.
- 384-4. **ADVERTISING MEDIA ANALYSIS.** A study of the businessman's problems of selecting appropriate advertising media for the particular advertising mix that affords him the best strategy. Prerequisite: 333.
- 438-4. **SALES MANAGEMENT.** Developing and training a sales force. The dif-

- ferent types of sales forces. Managing sales functions: determining salesman's territories, quotas, compensation. Budget preparation. Developing and implementing the merchandise plan. Prerequisites: 230, and 337 or consent of the instructor.
- 451-4. **TRAFFIC MANAGEMENT.** Primary industrial traffic management functions, including determination of rates, classification, routing, and proper documentation. Consideration given to loss and damage claims, terminal charges, demurrage, reconsignment and conversion, transit privileges, warehousing, and packing. Emphasis upon co-operative aspects of traffic management requiring transportation. Prerequisite: 341.
- 463-3. **ADVERTISING MANAGEMENT.** The effective way of advertising by business management. An understanding of what advertising can be expected to accomplish under different sets of marketing factors and products. The selection of advantageous advertising programs under different marketing mixes. Prerequisite: 333 or 384.
- 490-4. **MARKETING RESEARCH AND ANALYSIS.** A non-mathematical development of the basic procedures, methods, and theory underlying analysis of primary and secondary market data. Prerequisite: 230, and one quarter of basic statistics or equivalent.

SECRETARIAL AND BUSINESS EDUCATION

Two major programs of study are offered in secretarial and business education: (1) undergraduate business-teacher education for students preparing to teach business subjects in high school, and (2) an undergraduate secretarial and office-management program.

The undergraduate business-teacher education program is divided into three sequences: (a) preparation for teaching all high school business subjects, (b) preparation for teaching all high school business subjects except shorthand, and (c) preparation for teaching basic business subjects only.

The undergraduate secretarial and office management program offers a course of study in office skills for a typist, stenographer, secretary, or machine operator, with training in office management and supervision.

The programs in business education lead to a Bachelor of Science in Education degree and the secretarial and office management program leads to a Bachelor of Science degree.

SUGGESTED CURRICULA FOR THE BACHELOR OF SCIENCE IN EDUCATION DEGREE

Preparation to Teach All High School Business Subjects

<i>General Degree Courses Required</i>	<i>Hours</i>
Art 120 or Music 100	3
Botany 101 or Zoology 100	5

Chemistry 101 or Physics 101	4
English 101, 102, 103	9
English 205, 206, 209, 211, 212 (two of the five)	6
English 300 or 391	3
Geography 211	5
Government 190	5
Health Education 100	4
History 201 or 202	5
Mathematics 106, 107b ¹	8
Physical education activity courses	3
Speech 101	4

Total hours of required general degree courses	64
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Education Courses Required

Administration and Supervision 331 and 355	7
Secondary Education 315 and 352	12
Guidance 305 or Psychology 303	4
Guidance 420 or Mathematics 410	3-4
Guidance 422 or Instructional Materials 417	4

Total hours of required education courses	30-31
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Business Division Courses Required

Accounting 251, 252, 253	12
Economics 205, 206	9
Management 170, 271, 371, 372 or 373	16
Marketing 230	5
Business and Secretarial Education ² 102, 103, 104, 213	3-12
Business and Secretarial Education ² 105, 106, 107, 216, 308	4-20
Business and Secretarial Education 307 or 407, 313, 401	12
Business and Secretarial Education 403, 404, 405, 406, 408 (any two)	6

Total hours of required business courses	67-92
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Minor (second teaching field)

Total hours of general degree courses required	64
Total hours of education courses required	30-31
Total hours of business courses required	67-92
Total hours required for a minor	24

¹ Higher mathematics may be taken depending upon placement test scores.

² Students who have had work in this area will be placed at the level for which their ability qualifies them.

Electives	7-6
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Total hours required for a bachelor's degree	192-217

Preparation to Teach All High School Business Subjects Except Shorthand

Students preparing to teach the business subjects usually taught in high school except shorthand, transcription, and secretarial practice will adhere to the general degree courses and education courses required in the preceding curriculum. They will take the following business courses:

Accounting 251, 252, 253, 351	16
Economics 205, 206	9
Management 170, 271, 371, 372 or 373, and one elective	20
Marketing 230 and one additional course	9
Business and Secretarial Education ² 102, 103, 104, 213	3-12
Business and Secretarial Education 313, 401, 407	12
Business and Secretarial Education 403, 405, 406, 408 (any two)	6
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Total hours required business courses	75-84

Preparation to Teach Basic Business Subjects Only

Students preparing to teach the basic business subjects only in high school will adhere to the general degree courses and education courses required in the first curriculum under Business Education. They will take the business courses listed on the next page.

Accounting 251, 252, 253, 351	16
Economics 205, 206, 355	12
Management 170, 271, 371, 372, 373	20
Marketing 230 and one additional course	9
Business and Secretarial Education 401, 405, 408	10
Electives in Management or Business and Secretarial Education	16
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Total hours of required business courses	83

SUGGESTED CURRICULUM FOR THE BACHELOR OF SCIENCE DEGREE

The following courses constitute a major in secretarial and office management.

<i>General Degree Courses Required</i>	<i>Hours</i>
Art 120 or Music 100	3
Botany 101 or 202 or Zoology 100	5

² Students who have had work in this area will be placed at the level for which their ability qualifies them.

Chemistry 101 or Physics 101	4
English 101, 102, 103	9
English 205, 206, 209, 211, 212 (two of the five)	6
English 300 or 391	3
Geography 211	5
Government 190	5
Health Education 100	4
History 101, 102, 103, 201 or 202, Sociology 101	5
Mathematics 106, 107b ¹	8
Physical education activity courses	3
Speech 101	4
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	64

Business Division Courses Required

Accounting 251, 252, 253	12
Economics 205, 206, 307	13
Management 170, 271, 320, 340, 361, 371, 372 or 373, 385	32
Marketing 230 and two additional courses	11
Business and Secretarial Education ² 102, 103, 104, 213	3-12
Business and Secretarial Education ² 105, 106, 107, 216, 308	4-20
Business and Secretarial Education 307, 313, 407	12
	—
	87-112
Total hours of general degree courses required	64
Total hours of business courses required	87-112
Electives	41-16
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Total hours required for a bachelor's degree	192-192

MINOR PROGRAMS

Minor programs are offered in the following areas: (1) undergraduate minor in business-teacher education consisting of a minimum of 30 hours of work in business; (2) undergraduate minor in secretarial training and office management consisting of a minimum of 24 hours of work in business.

Minor programs in business and secretarial education are generally planned for each student individually by the student and a representative of the Business Division. This procedure is necessary because students'

¹ Higher mathematics may be taken depending upon placement test scores.

² Students who have had work in this area will be placed at the level for which their ability qualifies them.

backgrounds and needs vary greatly. The following illustrative minor programs, however, will fit the needs of many students desiring to minor in business or secretarial education.

Typical Minor Programs in Business-Teacher Education

Preparation for teaching bookkeeping, calculating machines, and general business: 313, 405, and 408; Accounting 251, 252, 253; Management 170, 371. Total—30 hours.

Preparation for teaching typewriting and general business, for students without previous training in typewriting: 102, 103, 104, 213, 403, 405; Management 170, 271, 371. Total—30 hours.

Preparation for teaching typewriting and shorthand, for students without previous training in typewriting and shorthand: 102, 103, 104, 105, 106, 107, 213, 216, 308, 403, 404. Total—38 hours.

Preparation for teaching typewriting, shorthand, office practice, and office machines, for students with two years of previous training in typewriting and one year of previous training in shorthand: 107, 213, 216, 307, 308, 313, 401, 403, 404. Total—33 hours.

Preparation for teaching typewriting, shorthand, and secretarial practice, for students with two years of previous training in both typewriting and shorthand, and who can take sustained, new-matter dictation at 80 words per minute: 213, 216, 307 or 407, 308, 313, 401, 403, 404; Management 271. Total—33 hours.

Preparation for teaching typewriting, shorthand, and secretarial practice, for students with two years of previous training in both typewriting and shorthand, and who can take sustained, new-matter dictation at 100 words per minute: 213, 307, 308, 313, 401, 403, 404, 407; Management 271. Total—32 hours.

Preparation for teaching typewriting, shorthand, bookkeeping, and general business, for students with two years of previous training in both typewriting and shorthand, and who can take sustained, new-matter dictation at 100 words per minute: 213, 308, 403 or 404, 405 or 408; Accounting 251, 252, 253; Management 170, 371. Total—33 hours.

Typical Minor Programs in Secretarial Education

For students with no previous training in typewriting or shorthand: 102, 103, 104, 105, 106, 107, 213, 216, 308. Total—32 hours.

For students with one year of previous training in both typewriting and shorthand: 104, 107, 213, 216, 307, 308, 313. Total—26 hours.

For students with two years of previous training in both typewriting and shorthand, and who can take sustained, new-matter dictation at 80

words per minute: 213, 216, 307, 308, 313, 407; Management 271. Total—27 hours.

For students with two years of previous training in both typewriting and shorthand, and who can take sustained, new-matter dictation at 100 words per minute: 213, 307, 308, 313, 407; Management 271, 361. Total—27 hours.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students. Those on the 500 level are for graduate students only.

- 102-3. TYPEWRITING I. An introductory course in touch typewriting aimed at developing a typing rate of at least 30 words per minute. Includes simple business correspondence, tables, and manuscripts. May not be taken for credit by students who have had previous high school or other formal training in typewriting.
- 103-3. TYPEWRITING II. Emphasis on further skill development, on business correspondence, and on other vocational and personal applications of typing skill. Prerequisite: 102, or one semester of high school typing and the ability to type at least 30 words per minute and to prepare simple business correspondence.
- 104-3. TYPEWRITING III. Further skill development, with emphasis on more complicated vocational and personal applications of typing skill. Prerequisite: 103, or one year of high school typing and the ability to type at least 40 words per minute and to type business correspondence, tables, etc. of moderate difficulty.
- 105-4. SHORTHAND I. An introductory course in Gregg shorthand. May not be taken for credit by students who have had previous high school or other formal training in shorthand.
- 106-4. SHORTHAND II. Completion of shorthand theory and introduction to dictation and transcription. Prerequisite: 105, or approximately one semester of shorthand instruction in high school, or equivalent.
- 107-4. SHORTHAND III. Major emphasis on improving dictation and transcription skills. Prerequisite: 106, or one year of high school instruction in shorthand (or equivalent) and the ability to take sustained, new-matter dictation at 60 words per minute.
- 113-1. DUPLICATING. Skills and knowledges in (1) the preparation of master copies and stencils and (2) the operation of liquid and stencil duplicating machines. Prerequisite: 102 or equivalent.
- 213-3. TYPEWRITING IV. Development of advanced skills in typing straight copy, business correspondence, manuscripts, forms, and tables; preparation of copy from rough draft materials; typing master copies for duplicating machines; transcription from machine dictation. Prerequisite: 104 or 1½ to 2 years of high school typing and the ability to type at least 50 words per minute and to prepare business correspondence, tables, manuscripts, forms, etc.

- 216-4. **SHORTHAND IV.** Development of high-level dictation and transcription skills and knowledges. Prerequisites: 107, or 1½ to 2 years of previous high school training in shorthand and transcription (or equivalent) and the ability to transcribe on the typewriter sustained, new-matter dictation taken at 80 words per minute.
- 307-4. **SECRETARIAL PRACTICE.** An advanced course for secretaries, covering such topics as personality and human relationships, office mail, office equipment, travel, sources of information, communications, business reports, and filing. Prerequisites: 213 and 216.
- 308-4. **SHORTHAND V.** Development of advanced dictation and transcription competencies. Prerequisite: 216, or two years of previous high school training in shorthand and transcription (or equivalent) and the ability to transcribe on the typewriter sustained, new-matter dictation taken at 100 words per minute.
- 313-4. **CALCULATING MACHINES.** Operation of basic types of office calculating machines, emphasizing the characteristic uses of each kind of machine in the office. Laboratory practice required.
- 403-3. **TEACHING TYPEWRITING.** Conduct of instruction in typewriting; the programming of activities in typewriting training, methods of instruction, skill-building principles and techniques, selection and preparation of practice materials, standards of achievement, and evaluation of pupils progress. Prerequisite: 213 or equivalent.
- 404-3. **TEACHING SHORTHAND AND TRANSCRIPTION.** Conduct of instruction in shorthand and transcription: the programming of activities in shorthand and transcription training, methods of instruction, skill-building principles and techniques, selection and preparation of practice and homework materials, standards of achievement, and evaluation of pupil progress. Prerequisite: 308 or equivalent.
- 405-3. **TEACHING BASIC BUSINESS SUBJECTS.** Instructional methods and materials for, and the evaluation of pupil progress in, such basic business subjects as general business, consumer education, economic geography, and business law. Prerequisite: consent of the instructor.
- 406-4. **TEACHING CLERICAL PRACTICE AND OFFICE MACHINES.** Instructional methods and materials for, and the evaluation of pupil progress in, clerical practice and office machines. Prerequisites: 213, 313 or equivalent.
- 407-4. **OFFICE MANAGEMENT.** A study of the principles of management as applied to office problems. Emphasis on the role of the office in business management; office organization; physical facilities of the office; office services, procedures, standards, and controls; records management; and office automation, including integrated data processing. Prerequisite: consent of instructor.
- 408-3. **TEACHING BOOKKEEPING AND ACCOUNTING.** Instructional methods and materials for, and the evaluation of pupil progress in, bookkeeping and accounting. Attention also given to the teaching of business arithmetic. Prerequisite: Accounting 253 or equivalent.

Courses on the 500 level are for graduate students only.

- 500-2 to 5. **READINGS IN BUSINESS EDUCATION.** Supervised readings in selected subjects. Prerequisite: consent of instructor and division head.

- 501-2 to 5. INDIVIDUAL RESEARCH IN BUSINESS EDUCATION. Selection and investigation of a problem; use of relevant sources and techniques; collection, evaluation, and interpretation of data; and the writing of a report on the investigation. Prerequisite: consent of instructor and division head.
- 506-4. PRINCIPLES AND PROBLEMS OF BUSINESS EDUCATION. A study of the fundamentals of business education; its relation to business, to general and vocational education, and to guidance programs; its history, current status, and trends; special emphasis on objectives and curriculum problems. Prerequisite: consent of instructor.

EDUCATION DIVISION

Administration and Supervision; Elementary Education; Guidance; Health and Physical Education; Industrial Education; Instructional Materials; Nursing; Psychology; Secondary Education; Special Education; Student Teaching

The Education Division prepares teachers for all grades from kindergarten through high school and provides basic training in the fields of psychology and guidance. The division is committed to giving professional training to teachers, supervisors, administrators, and specialists. In its current offerings it broadens its efforts to include provisional work in several specialties in school administration and supervision. For most undergraduate students preparing to teach in high school, the subject matter majors will be taken in other divisions, and the provisional preparation for teaching including student teaching, will be taken in the Education Division.

Professor H. Bruce Brubaker, Ed.D. (Indiana)	1959
Professor Virginia H. Harrison, M.S.N.E. (St. Louis)	1955
Professor Cameron W. Meredith, Ph.D. (Michigan), Head	1959
Professor Clarence W. Stephens, Ed.D. (Indiana)	1952
Professor Mark M. Tucker, Ed.D. (California)	1959
Professor Leonard B. Wheat, Ph.D. (Columbia)	1958
Associate Professor David E. Bear, Ph.D. (Washington University)	1957
Associate Professor Howard V. Davis, Ed.D. (Washington University)	1957
Associate Professor Alfred E. Kuenzli, Ed. D. (Indiana)	1958
Associate Professor John H. Schnabel, Ed.D. (Indiana)	1957
Associate Professor Harry H. Smith, Ed.D. (Washington University)	1958

Associate Professor Myllan Smyers, Ed.D. (Indiana)	1959
Associate Professor Lawrence E. Taliana, Ph.D. (Purdue)	1959
Assistant Professor Rosemarie Archangel, M.A. (Iowa)	1961
Assistant Professor William F. Banaghan, Ph.D. (Purdue)	1959
Assistant Professor Gordon C. Bliss, Ed.D. (Nebraska)	1960
Assistant Professor Regan Carpenter, Ed.D. (Colorado)	1959
Assistant Professor Lawrence Dameron, Ph.D. (Chicago)	1960
Assistant Professor Orval Gust Johnson, Ph.D. (Wisconsin)	1961
Assistant Professor Walter C. Klein, D.H.S. (Indiana)	1961
Assistant Professor Marjorie D. Logan, M.S. (Illinois)	1958
Assistant Professor Babette Marks, M.Ed. (North Carolina)	1957
Assistant Professor Howard C. Nesbitt, Ed.D. (Columbia)	1958
Assistant Professor Richard D. Spear, H.S.D. (Indiana)	1960
Assistant Professor Roy S. Steinbrook, Ed.D. (Indiana)	1960
Assistant Professor Robert H. Steinkellner, Ed.D. (Missouri)	1958
Assistant Professor Raymond Edwin Troyer, Ph.D. (Chicago)	1960
Instructor Thomas D. Evans, M.S. in Ed. (Southern Illinois)	1957
Instructor Betty Jo Kelley, M.S. in Ed. (Southern Illinois)	1959
Instructor Norman E. Showers, M.S. (Southern California)	1957
Instructor David R. Van Horn, M.S. (Oklahoma State)	1957
<hr/>	
Visiting Professor John G. Rockwell, Ph.D. (Chicago)	1959-62
Lecturer Frank L. Eversull, Ph.D. (Yale)	1957-62
Lecturer Alfred D. Curry, M.Ed. (Missouri)	1960

ADMINISTRATION AND SUPERVISION

This area of study includes introductory courses and basic offerings in administration, supervision, and curriculum as well as in the social and philosophical foundations of education and advanced courses and seminars in these areas. The emphasis is mainly on graduate work toward the master's degree.

Persons desirous of pursuing such programs should familiarize themselves with the requirements as set forth in the Graduate School bulletin.

COURSE DESCRIPTIONS

Courses on the 300 level are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students. Those on the 500 level are for graduate students only.

- 331-3. THE AMERICAN EDUCATIONAL SYSTEMS. A comprehensive study of the structure, financing, and administration of American public school systems, made from the teacher's point of view.
- 355-4. PHILOSOPHY OF EDUCATION. The philosophical principles of education and the educational theories and agencies involved in the work of the schools.
- 420-4. LEGAL BASIS OF AMERICAN EDUCATION. Legal concepts governing education in the United States. Particular emphasis is placed on common-law principles.
- 424-4. SCHOOL ADMINISTRATION. Primarily for those who look forward to positions as supervisors, principals, or superintendents.
- 431-4. HISTORY OF EDUCATION IN THE UNITED STATES. A historical study of the problems of American education which have relevance to contemporary education.
- 432-4. PUBLIC OPINION, PROPAGANDA, AND EDUCATION. Analysis and classification of propaganda; how public opinion is formed; current materials from the different channels of communication.
- 456-4. SCHOOL SUPERVISION. The function of the principal or supervisor in the improvement of instruction. Some activities, methods, and devices for improving the effectiveness of teaching.
- 460-4. CURRICULUM. Modern practices and procedures in curriculum development, with attention to the professional, social, economic, and other major factors in curriculum planning.
- 485-4 to 9. WORKSHOP IN EDUCATIONAL UTILIZATION OF COMMUNITY RESOURCES. (Same as Guidance 485.) Opportunity for teachers, supervisors, and administrators to acquire detailed knowledge of community area resources; produce teaching units, assemble files of resource materials. Visits to business and industries; specialists and consultants enrich the program.

Courses on the 500 level are for graduate students only.

- 500-4. RESEARCH METHODS. Practical training in research and writing techniques in the field of education. Bibliographical materials, footnotes, use of the library. Recommended that students have had Guidance 420 or 422.
- 511-4, 512-4, 513-4. INTERNSHIP PRACTICUM. Courses of instruction relating to the study of theory and practical experience, both being carried on simultaneously in conjunction with a co-operating public school. This course open only to students who have been admitted to the internship program.
- 520-4. ILLINOIS SCHOOL LAW. Study of the legal aspects of Illinois public education with principal emphasis on statutory law and its interpretation by the courts.
- 527-4 to 6. ADMINISTRATIVE PROBLEMS OF SMALL SCHOOLS. A field laboratory course for principals and superintendents, both elementary and secondary, focused upon specific problems presented by the students. Limited to administrators.
- 533-4. SCHOOL BUILDINGS. Various phases of physical-plant design and maintenance of concern to the school administrator.
- 534-4. SCHOOL FINANCE. Fiscal administration of public education at the national, state, and local levels. Prerequisite: 424.

- 535-4. RESEARCH IN PROBLEMS OF ADMINISTRATION. An intensive four-week course for school principals on theory and principles of administration for small schools, special administrative problems, school plant evaluation, curriculum revision, class scheduling, budgeting and school accounting, community relationships, supervision, pupil accounting, and evaluation of instructional services.
- 554-4. CONTRASTING PHILOSOPHIES OF EDUCATION. Deals both historically and contemporaneously with the ideologies which have developed from different concepts of education.
- 556-4. SEMINAR IN EDUCATIONAL SUPERVISION. Special research problems in supervision, for advanced graduate studnets. Prerequisite: 456.
- 563-4. WORKSHOP IN SCHOOL PUBLIC RELATIONS.
- 575A to K-2 to 4. INDIVIDUAL RESEARCH. Selection, investigation, and writing of a research topic under the personal supervision of a member of the departmental graduate faculty. By special arrangement.

ELEMENTARY EDUCATION

The Education Division offers undergraduate work leading to the Bachelor of Science in Education degree for majors in kindergarten-primary education and in elementary education. Completion of the requirements for the respective degrees in this division qualifies one for the State Elementary Certificate.

A student registers as either a major in kindergarten-primary education or as a major in elementary education. In addition to general university and Education Division requirements a student must (1) meet all requirements pertaining to prerequisites to student teaching and should study the section in this bulletin which lists such requirements and (2) have at least twenty-four hours in each of these three fields: language arts, natural science, social science.

Students interested in programs on the master's level should consult the Graduate School bulletin.

Following are the requirements for the Bachelor of Science in Education degree with a major in kindergarten-primary education and elementary education.

KINDERGARTEN-PRIMARY EDUCATION

State Minimum Requirements (Statutes or Certifying Board Regulations)		Southern Illinois University Requirements Based Upon, or in Addition to, State Minimum Requirements	
	Hrs.		
I. General Education	109.5		
a. Language Arts	24	English 101, 102, 103, and 300 or 391;	

		plus 6 hours selected from English 205, 206, 209, 211, 212, plus Speech 101 and Speech Correction 428.
b. Natural Science	24	5 hours selected from Botany 101, 202, or Zoology 100, 101, 105; plus 4 hours chemistry or physics; plus 15 hours elective in natural sciences.
c. Social Science (including a course in American History and/or Government)	24	History 201 or 202; Government 190 or 231 or 300; plus 5 hours in social geography; plus 5 hours in economics or sociology; plus hours to equal 24.
d. Mathematics	7.5	8 hours mathematics (4 hours must be mathematics 210).
e. Health and Physical Education	7.5	Health Education 100; plus 3 hours in physical education activity; plus Physical Education for Women 350.
f. Fine and Applied Arts ..	18	Art 120 or Music 100; Art 300; 3 quarters of Music 040; ¹ and Music 300B; plus elective hours to equal 18.
g. General Psychology	4.5	Psychology 201.
II. Education (Professional) ..	24	Courses specified below; plus hours equal to 48 selected from approved professional education electives listed below.
a. Educational Psychology, Child Psychology, Human Growth and Development	3	Guidance 305, or Psychology 301.
b. Teaching and learning techniques in the modern elementary school and curricula problems	3	Elementary Education 316; 337.
c. Student Teaching (Elementary level)	7.5	Student teaching 12 hours (to be done on both kindergarten and primary levels).
Education	3	Education Administration 355
d. Philosophy of		
e. American Public Education	3	Education Administration 331
		Approved professional education electives: All elementary education courses; plus Instructional Materials 417, Instructional Materials 405 or Elementary Education 313, Guidance 305, 422, Psychology 301, Special Education 412, 414, and Speech Correction 428.

¹ The three-hour requirement in Music 040 may be waived by the student's satisfactory passing of a performance test.

III. Total number of hours
required for certification .. 180

Total number of hours for degree: 192
with at least 24 hours in each of these
fields: language arts, natural science, and
social science.

ELEMENTARY EDUCATION

State Minimum Requirements (Statutes or Certifying Board Regulations)		Southern Illinois University Requirements based upon, or in addition to, State Minimum Requirements	
		Hrs.	
I. General Education		108	
a. Language Arts		24 ²	
b. Natural Science		24 ⁴	
c. Social Science (including a course in American History and/or Government)		24	
d. Mathematics		6	
e. Health and Physical Education (must include a minimum of 3 hrs. in materials and methods of instruction)		7.5	
f. Fine and Applied Arts ..		18	
g. General Psychology		4.5	
II. Education (Professional) ..		24	
a. Educational Psychology, Child Psychology, Human Growth and Development		3	
b. Teaching and learning techniques in the			

English 101, 102, 103, 391³, plus 6 hours
selected from English 205, 206, 209, 211,
212, plus Speech, plus hours to equal 24.
5 hours selected from Botany 101, 131,
202, or Zoology 100, 101, 105; plus 4 hours
chemistry or physics; plus 15 hours elec-
tive in natural sciences.
History 201 or 202; Government 190 or
231 or 300; plus 5 hours in social geog-
raphy; plus 5 hours in economics or
sociology; plus hours to equal 24.
8 hours mathematics (4 hours must be
Mathematics 210).
Health Education 100, plus 3 hours in
physical education activity; plus 3 hours
materials and methods of teaching phys-
ical education.
Art 120 or Music 100; plus 15 hours elec-
tive in this field.
Psychology 201.
Courses specified below; plus hours equal
to 48 selected from approved professional
education electives listed below.
3 hours selected from Guidance 305 or
Psychology 301.
Elementary Education 314 and 337.

² Under Language Arts, reading, oral and written expression, grammar, spelling, handwriting, literature for children, and other literature as is commonly found in the courses of study in the elementary schools will be accepted.
³ Students who have completed English 300 will not take English 391.
⁴ Under Natural Science, courses in mathematics (excluding arithmetic), botany, zoology, chemistry, physics, geology, geography, biology, general science, and physiology, or their equivalents in integrated courses, will be accepted. (It is recommended that at least one laboratory course be included.)

modern elementary school and curricula problems	3	
c. Student Teaching (Elementary level)	7.5	Student teaching 8 hours.
d. Philosophy of Education	3	Education Administration 355.
e. American Public Education	3	Education Administration 331.
		Approved professional education electives: All elementary education courses; plus In- structional Materials 417; Instructional Materials 405 or Elementary Education 313, Guidance 305, 422, Psychology 301, Special Education 412, 414, and Speech Correction 428.
III. Total number of hours required for certification	180	Total number of hours for degree: 192 with at least 24 hours in each of these fields: language arts, natural science, and social science.

COURSE DESCRIPTIONS

Courses on the 200 and 300 levels are for undergraduate students. Those on the 400 level for both undergraduate and graduate students. Those on the 500 level are for graduate students only.

- 203-3. UNDERSTANDING THE ELEMENTARY SCHOOL CHILD. Concepts needed to understand the child in the elementary school situation. Two hours of lecture and two hours of observation. Prerequisite: Psychology 201.
- 313-4. CHILDREN'S LITERATURE. Emphasizes types of literature, analysis of literary qualities, selection and presentation of literature for children. Not for students who have had English 213. Prerequisite: Guidance 305.
- 314-4. ELEMENTARY SCHOOL METHODS. The fundamental principles of education, the interpretation of current educational theory and practice, the processes of teaching and learning involved in elementary education. Education 314 cannot be substituted for 315, nor 315 for 314. Prerequisite: Guidance 305.
- 316-4. KINDERGARTEN-PRIMARY METHODS AND CURRICULUM. Philosophy and principles underlying the teaching of four-to-eight-year-olds. Emphasis upon organization, equipment, materials and methods for promoting growth of young children. Prerequisite: Guidance 305.
- 337-4. READING IN THE ELEMENTARY SCHOOLS. The principles of reading, factors that condition reading, together with grade placement of aims and materials; diagnostic and remedial treatment. Prerequisite: 314 or 315; Guidance 305.
- 350D-8 to 12. KINDERGARTEN-PRIMARY STUDENT TEACHING.

- 350E-4 to 8. ADVANCED KINDERGARTEN-PRIMARY STUDENT TEACHING. Prerequisite: 350D.
- 351D-8 to 12. ELEMENTARY STUDENT TEACHING.
- 351E-4 to 8. ADVANCED ELEMENTARY STUDENT TEACHING. Prerequisite: 351D.
- 415-2 to 4. IMPROVEMENT OF INSTRUCTION IN ARITHMETIC IN THE ELEMENTARY SCHOOL. Items to be taught, the grade placement of content, newer instructional practices and materials in instruction, and means of evaluating achievement. Prerequisite: Mathematics 210 or consent of instructor.
- 433-4. WORKSHOP IN ELEMENTARY EDUCATION. Meets needs of in-service teachers in such areas as curriculum adjustment, remedial teaching, child development. No credit if student has had 333 or 390.
- 435-4 to 8. WORKSHOP IN ELEMENTARY SCHOOL FOREIGN LANGUAGE INSTRUCTION. Designed to assist elementary school teachers in integrating foreign languages into their teaching program as well as to encourage high school teachers to introduce or supervise foreign languages or education. Prerequisite: basic language credit.
- 437-4. PROBLEMS IN READING. Practices and trends in the teaching of reading; materials of instruction in reading, particularly remedial materials; techniques and materials for prevention of reading difficulties; diagnosis and remediation of reading difficulties. Prerequisite: 337. Not open to students having had 540.
- 441-4. TEACHING ELEMENTARY SCIENCE. A workshop course for teachers of elementary school science.
- 442-4. MATERIALS AND METHODS IN ELEMENTARY SCHOOL SCIENCE. Study of the content and the methods of elementary school science.
- 461-4. THE ELEMENTARY SCHOOL CURRICULUM. A critical study of the reorganization, construction, and administration of the elementary school curriculum, and the installation, adaptation, and administration of the revised curriculum. Not open to students having had 460.
- 465-4. SEMINAR IN PSYCHOLOGY OF ELEMENTARY SCHOOL SUBJECTS. Psychological principles of learning applied to the mastery of materials used in elementary school subjects. Prerequisites: 314, Guidance 305.

Courses on the 500 level are for graduate students only.

- 505-4. IMPROVEMENT OF READING INSTRUCTION. First course in the reading sequence; survey of reading problems; aspects of the reading process; modern practices in teaching reading.
- 507-2 to 4. READINGS IN READING. Independent reading; acquaintanceship with the literature and research in reading. Conference periods.
- 514-4. ORGANIZATION AND ADMINISTRATION OF READING PROGRAMS. For reading specialists, principals, supervisors, consultants. Recent trends in elementary and high school reading programs; providing reading instruction for total school population; materials and equipment; in-service training; role of the reading specialist. Problems of class members are studied and discussed. Prerequisite: Elementary Education 461 or Secondary Education 460.

- 515-4. SPECIAL PROBLEMS IN THE TEACHING OF ARITHMETIC IN THE ELEMENTARY SCHOOL. A seminar course which covers important problems in arithmetic in the elementary school. The content may vary slightly from year to year, depending upon the interests of the students enrolled. Prerequisite: 415 or consent of instructor.
- 541-4. SELECTED TEACHING AND CURRICULUM PROBLEMS IN ELEMENTARY SCHOOL SCIENCE. A course to help teachers with the problems of teaching science in the elementary school. Aims, methods, materials, and equipment. Emphasis on grade placement of materials and the use of community resources. No credit for students having had 442.
- 542-4. LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. The practical bearing of investigation and theory on the improvement of current practices in the teaching of the language arts, other than reading. Attention given to evaluation of teaching materials in these areas.
- 543-4. TEACHING THE SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. Organization of material for teaching purposes, techniques of classroom presentation, bibliographies of materials, use of audio and visual aids to instruction, and techniques for evaluating student progress. Readings, lectures, and discussions related to required teaching experience. No credit for students having had 544.
- 557-4. THE ELEMENTARY PRINCIPALSHIP. Designed to meet many of the particular needs of persons interested in qualifying for appointments as elementary school principals. Other than the administrative responsibilities of the elementary principal, such topics as the grouping of pupils, the elementary school's program, and personnel are studied.
- 560-4. KINDERGARTEN-PRIMARY EDUCATION. A survey of current problems and practices in early childhood education for children from four to eight years of age, with emphasis on wide reading in current research literature. Prerequisite: consent of instructor.
- 563-4. ORGANIZATION OF THE ELEMENTARY SCHOOL. An analysis of types of elementary school organization with special attention to influence of school organization upon the educational program. Application of research findings to selection and use of materials of instruction. Special consideration to student's professional problems.
- 575-2 to 4. INDIVIDUAL RESEARCH. The selection, investigation, and writing of a research topic, under the personal supervision of a member of the departmental graduate staff, in one of the following areas: A. Curriculum, B. Supervision, C. Language Arts, D. Science, E. Reading, F. Social Studies, G. Problems in Elementary Education, H. Arithmetic, J. Problems in Kindergarten-Primary, K. Elementary Education Administration and Supervision.

GUIDANCE

The major in guidance is offered only at the graduate level. Students who plan to take such a major at the graduate level should take Guidance 305, 412, and 422 at the undergraduate level. The 400-level courses listed

immediately below may be used as electives by undergraduates majoring in education.

COURSE DESCRIPTIONS

Courses on the 300 level are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students. Those on the 500 level are for graduate students only.

- 305-4. EDUCATIONAL PSYCHOLOGY. Designed to help the prospective teacher understand human development, learning and adjustment, with special emphasis on individual differences, motivation, evaluation, and discipline in classroom situations. Prerequisite: Psychology 201.
- 412-4. MENTAL HYGIENE. An integration of knowledge and principles concerning factors and conditions in the personal life that tend to facilitate or deter mental health. Prerequisite: 305.
- 420-4. EDUCATIONAL STATISTICS. The statistics needed by teachers for classroom use, the reading of educational literature, and informal educational research. Includes methods of describing group performance, measures of reliability, and tests of significance. Prerequisite: 305.
- 422-4. EDUCATIONAL MEASUREMENTS I. Study of the philosophy and techniques of measurement. Special attention to the construction and use of teacher-made tests. Prerequisite: 305.
- 426-4. INDIVIDUAL INVENTORY. Principles and procedures for studying individual pupils and their problems, for guidance purposes. Emphasis on interview, observation, ratings, case study, and cumulative records. Prerequisites: 422, 442.
- 442-4. BASIC PRINCIPLES OF GUIDANCE. Introductory course on student personnel services. Survey of philosophy, principles, and organization of guidance services. Prerequisite: 305.
- 485-4 to 9. WORKSHOP IN EDUCATIONAL UTILIZATION OF COMMUNITY RESOURCES. Opportunity for teachers, supervisors, and administrators to acquire detailed knowledge of community area resources; produce teaching units, assemble files of resource materials. Visits to businesses and industries; specialists and consultants enrich the program.

Courses on the 500 level are for graduate students only.

- 501-2 to 6. SPECIAL RESEARCH PROBLEMS. For majors in guidance. Formulating, investigating, and reporting on a problem in the area of guidance. Prerequisites: advanced standing and consent of instructor.
- 511-4. EDUCATIONAL IMPLICATIONS OF LEARNING THEORIES. Survey of the major theories of learning; conditioning, connectionism, and field theory. Emphasizes the implications of these theories for classroom practice. Prerequisite: 305.
- 515-4. PSYCHOLOGICAL ASPECTS OF EDUCATION. Seminar in which each student prepares and presents a paper concerning a specific application of psychological principles in an educational situation. Discussion by class and staff follows each presentation. Prerequisite: consent of instructor.

- 522-4. EDUCATIONAL MEASUREMENTS II. Study of standardized tests and other measurement devices to reveal individual and group characteristics. Emphasizes application and interpretation for counseling, education, and research purposes. Prerequisites: 420, 422, or consent of instructor.
- 525-4. SCHOOL BEHAVIOR PROBLEMS AND THEIR PREVENTION. Etiological factors, differential diagnosis, and methods used in the correction of behavior problems. Consideration of intra-community and extra-community facilities available in treatment programs. Includes in-service field work. Prerequisite: 412.
- 535-4. INTRODUCTION TO INDIVIDUAL MEASUREMENT. Survey of theories and practices in the individual assessment of human behavioral characteristics, to develop understanding and appreciation of these concepts for use in the counseling relationship. Prerequisites: 422 and consent of instructor.
- 536A-4. APPRAISAL OF INTELLIGENCE. (Elementary School Level) Theory and practice in administering advanced individual intelligence tests, such as the WISC. Each student to administer 25 tests to elementary school pupils and to interpret the results. Prerequisites: 535 and consent of instructor.
- 536B-4. APPRAISAL OF INTELLIGENCE. (Adolescents) Theory and practice in administering advanced individual intelligence tests, such as the WAIS. Each student to administer 25 tests to secondary school pupils and to interpret the results. Prerequisites: 535 and consent of instructor.
- 537-4. COUNSELING THEORY AND PRACTICE I. Systematic study of the major approaches to counseling. Observation and practice utilized to supplement didactic discussion. Prerequisite: 442 or consent of instructor.
- 541-4. OCCUPATIONAL INFORMATION AND GUIDANCE. Designed for school counselors, industrial supervisors, and teachers to give them an orientation to, and experience with, occupational information and vocational adjustment. Prerequisite: consent of instructor.
- 543-4. GUIDANCE THROUGH GROUPS. Study of the methods, techniques, and materials for the organization and utilization of groups for guidance purposes. Prerequisites: 412, 442.
- 545A-4. PROBLEMS IN GUIDANCE. A seminar-laboratory course to discuss current problems in guidance as met by guidance workers in the field.
- 562A-4. CHILD DEVELOPMENT IN EDUCATION. How children mature and develop with emphasis upon manipulating the curriculum and other school activities to promote normal healthy development. Prerequisite: 412.
- 562B-4. ADOLESCENT DEVELOPMENT IN EDUCATION. The problems of adolescence with emphasis upon ways in which the school can help adolescents in solving these problems. Prerequisite: 412.

HEALTH EDUCATION

A health education minor of 24 hours is offered by the Edwardsville campuses. The following courses are required for the minor: 100, 205, 300, 311 or 312, 313S or 334S, 350 or 460, 471. Additional courses,

when offered, may be taken in safety education, school health, public health, child growth and development, and emotional health.

Courses constituting a health education minor, for a student majoring in physical education for men, are as follows: 100, 205, 300, 311 or 312, 313S or 334S, and 471. A student majoring in physical education for women takes 100, 205, 311 or 312, 334S, 471, and Physical Education 370 for a minor in health education.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students.

- 100-4. HEALTHFUL LIVING. A survey course in personal and community health designed to meet the general health needs of college students. Objective of the course is to present scientific information as a basis for helping the student develop wholesome health attitudes and practices. Prerequisite for all 300 courses.
- 205-4. INTRODUCTION TO HEALTH EDUCATION. Introduction to philosophy and history of health education. The function of the school, the health department, and voluntary agencies in a health education program.
- 300-3. COMMUNICABLE DISEASE. A study of the communicable diseases with emphasis on control and principles of prevention, and application of these principles to the individual and the community.
- 302S-4. DRIVER EDUCATION AND TRAINING. To prepare the college student for teaching driver education and training in the secondary school. Prerequisite: Illinois driver's license.
- 311-4. CHILD DEVELOPMENT. Physical development of the child, beginning with the study of pregnancy, pre-natal and post-natal care, and the physical development of the child from birth to puberty.
- 312-4. EMOTIONAL HEALTH. Designed for prospective teachers and parents. Emotional health of the teacher and parent in terms of its influence upon the child in the classroom.
- 313S-4. INTRODUCTION TO SAFETY EDUCATION. Prepares for safety education in the public schools. Concerns safety as a social problem, development of safety skills, accident causes, teacher liability, research in the field.
- 334S-4. FIRST AID. Red Cross first aid course with lectures, demonstrations, and practical applications. Red Cross Instructor's Certificate given.
- 350-4. METHODS AND MATERIALS IN ELEMENTARY HEALTH EDUCATION. Designed to show the prospective teacher fundamental processes, techniques, and material aids involved in elementary school health teaching.
- 400-4. HEALTH APPRAISAL OF CHILDREN. The role of the teacher in the health appraisal of the school child, including school health examinations, use of health records, and emphasis on training for recognition of health deviations from normal common among school children.

- 415S-4. WORKSHOP IN DRIVER EDUCATION AND TRAFFIC SAFETY. Summer course designed for pre-service and in-service teachers of driver education and traffic safety. Individual and group problems will be treated. Lectures by safety authorities, demonstrations, field trips, audio-visual materials, and individually supervised research in special problem areas. Prerequisite: 302S or equivalent.
- 442S-4. DRIVER EDUCATION METHODS. An advanced course in driver education which includes a study of existing courses of study, review of research, course-of-study planning, visitation and reporting, panel discussions, accident statistics, conducting the secondary school program, testing, and demonstration in the car. Prerequisite: 302S.
- 443S-4. METHODS AND MATERIALS IN DRIVER EDUCATION. An advanced course in driver education which includes a study of existing courses of study, review of research, course-of-study planning, visitation and reporting, panel discussions, accident statistics, conducting the secondary school program, testing, and demonstration in the car. Prerequisite: 302S.
- 460-4. METHODS AND MATERIALS IN SECONDARY SCHOOL HEALTH EDUCATION. Shows the prospective teacher the fundamental processes involved in the teaching of health education at the secondary level.
- 471-4. ORGANIZATION AND ADMINISTRATION OF SCHOOL HEALTH. Appraisal of over-all school organization for health education, including health service and personnel, health and safety instruction, school environment, school health examination, local, state, and federal resources for health, health councils, and interdepartmental relationships.

PHYSICAL EDUCATION FOR MEN

Courses leading to the Bachelor of Science in Education degree with a major in physical education are offered.

Three hours of physical education are required for all degree students on the Edwardsville campuses of Southern Illinois University as part of the general university requirements for graduation. These courses, 251, 252, and 253, are activities of a group and individual nature with special sections for those using these courses for the general university requirement. These courses should be completed in the freshman and sophomore years. Credit is received for participating in varsity athletics; however, this credit cannot be used to satisfy the general degree requirement or for a physical education major or minor.

CURRICULUM FOR THE MAJOR IN PHYSICAL EDUCATION

The major curriculum consists of a total of forty-eight hours of theory and practice courses. This entire unit of specialization is intended to qualify young men for positions as teachers, coaches, or specialists in public

and private elementary or secondary schools, colleges, universities, as well as other social agencies which promote physical activity programs. The curricula are designed to meet the requirements of state departments of education and any other agencies which have adopted professional standards.

Required courses and related experiences for the major are as follows:

Theory Courses. 101, 303, 305, 341, 350, 354, 355, 365, 370, 376, 381 or 382, 383, 384, Health Education 460. Physiology 209 and 300 are prerequisites to Physical Education 303 and 376.

Practice Courses. 114, 116, 117, 118, 119, and the sections of 151, 152, 153, 261, 262, 263 which are specially designed for majors and minors in physical education. All practice courses should be completed by the end of the sophomore year. Students who cannot swim must audit a beginner's course of instruction before enrolling in 117.

Student Teaching and Observation. Complete and integrated experience in teaching physical education and assisting in coaching under qualified supervisors is provided students in the co-operating schools of the area.

Related Professional Experience. Other valuable experiences are provided majors and minors in physical education to supplement the regular course work. Some of these are gained through membership in the Physical Education Majors Club; membership in professional associations; participation on intercollegiate and intramural athletic teams; serving as officials and managers; assisting in service class testing; attendance at clinics, workshops, conventions, and conferences; reading of professional journals; and working with area recreational and school groups in teaching techniques of various activities.

General Degree Requirements and Education Division Requirements. Requirements for secondary education must be satisfied.

CURRICULUM FOR THE MINOR IN PHYSICAL EDUCATION

Students who wish to minor in physical education must complete at least thirty hours of courses as follows: 101, 341, 350, 354, 370, 376, and six hours from any of 381, 382, 383, and 384. Additionally, minor must complete practice courses 114, 116, 117, 118, 119, and all six of the courses 151, 152, 153, 261, 262, 263 which have special sections for persons majoring or minoring in physical education.

INTRAMURAL ATHLETICS

Intramural athletics are an integral part of the physical education program at the Edwardsville campuses. The intramural program is designed

to allow all male students the opportunity to participate regardless of athletic ability. An Intramural Council of students serves in an advisory capacity to the intramural director. Any male student, not on probation, may participate. Students on probation may petition the Office of Student Affairs for permission to continue in the program. The activities, wherever possible, are scheduled during the student's free hours. The program is financed through the student activity fees.

Activities that are offered include six-man tackle football (with full equipment) at the Alton center. The following are offered at both centers: flag football, volleyball, soccer, basketball, basketball free throw shooting, bowling, badminton, softball, golf, ping pong, horseshoes, and corkball. Other activities will be added as needed and facilities become available.

A student may earn an intramural varsity letter or intramural minor award plaque by earning intramural participation points. An intramural player-of-the-year trophy is presented at the end of the school year.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students.

- 101-1. ORIENTATION IN PHYSICAL EDUCATION. Intended to introduce the student to his professional field, to enable him to secure a concept of the role of physical education in total education, and crystallize his thinking in relation to vocational objectives.
- 114-1. METHODS AND MATERIALS OF TEACHING WRESTLING. Fundamental skills, individual and group methods of wrestling instruction. Practice work with recreation and school groups.
- 116-2. METHODS AND MATERIALS OF TEACHING GYMNASTICS. To develop individual techniques in stunts and tumbling, calisthenics, parallel bars, side horse, trampoline, and high bar. Practical work with recreation and school groups.
- 117-1. METHODS AND MATERIALS OF TEACHING SWIMMING. Emphasis on basic strokes, underwater swimming, elementary diving, body and breath control, self-support, and watermanship. If student is non-swimmer, he must audit beginner's swimming course prior to registration for 117. Practical work with recreation and school groups.
- 118-1. METHODS AND MATERIALS OF TEACHING TENNIS. Enables students to acquire, through practice, the knowledge and skills necessary to teach this activity. Basic strokes and singles and doubles play are considered. Practical work with recreation and school groups.
- 119-1. METHODS AND MATERIALS OF TEACHING GOLF. Considers the proper techniques of playing golf including use of the various clubs. Stresses rules of play and social etiquette involved in the game. Practical work with recreation and school groups.
- 151-1. TEACHING OF TEAM GAMES I. Stresses development of skills and

proper teaching techniques for various team games such as soccer, speedball, touch football, and field hockey. Covers background and historical information for these activities. For majors and minors only.

- 152-1. BASIC RHYTHMS I. Fundamental movements and rhythmic analysis as related to physical education activities. For majors and minors only.
- 153-1. TEACHING OF TEAM GAMES II. Stresses development of skills and proper teaching techniques for various team games such as softball, corkball, baseball, volleyball, and basketball. For majors and minors only.
- 251, 252, 253-1. REQUIRED PHYSICAL EDUCATION. Special sections of these courses are for those students taking physical education to meet the University's general degree requirements. Activities are of an individual and group nature such as tennis, golf, soccer, speedball, touch football, softball, volleyball and basketball. The physical fitness of the individual is stressed through a program of activities designed for the individual. It is strongly recommended that these courses be taken in the freshman year.
- 261-1. TEACHING OF INDIVIDUAL ACTIVITIES I. Covers such activities as paddle tennis, handball, tennis, and such related individual sports. Techniques, background, and evaluation of the fundamentals involved are considered. For majors and minors only.
- 262-1. BASIC RHYTHMS II. Continues from Basic Rhythms I with more involved fundamental movements and rhythmic activities leading up to more advanced co-ordinated activities. For majors and minors only.
- 263-1. TEACHING OF INDIVIDUAL ACTIVITIES II. Deals with activities such as golf, badminton, archery, and swimming. Historical background and development of these activities are also considered. For majors and minors only.
- 254-1. BOWLING. Fundamental skills involved in bowling as well as background and practical application of these skills. Can be used as a substitute for 251, 252, 253 for general degree requirements. Cannot be used by majors and minors as a substitute for the special sections of 251, 252, 253.
- 303-5. KINESIOLOGY. (Same as Physical Education for Women 303.) Study of joint and muscle action as a basis for the mechanical analysis of human physical movement as executed in daily life and as executed in physical education activities and sports. Prerequisite: Physiology 300.
- 305-2. PHYSICAL EDUCATION FOR THE ATYPICAL STUDENT. Deals with the recognition of physical deviations and with the provisions of special or modified physical education or recreational activities for such students. Prerequisites: Physiology 209, 300.
- 331A-2. THEORY OF SWIMMING COACHING. Foundations and principles underlying coaching methods; comparative study of differences in prevailing theories and methods; development of programs of training in pre-season, mid-season, and post-season. Prerequisite: 117.
- 331D-2. THEORY OF WRESTLING COACHING. Prepares students to develop programs of wrestling, including comparative knowledge of problems, techniques, materials, and systems in coaching wrestling as well as the organization and administration of the wrestling program. Prerequisite: 114.

- 331E-2. THEORY OF TENNIS COACHING. Theory of advanced strokes, strategy and tactics; scheduling and conducting matches, tournaments, exhibitions and clinics; officiating: organization and promotion of development programs. Prerequisite: 118.
- 331F-2. THEORY OF GYMNASTIC COACHING. All phases of gymnastics; organization of dual meets, championships, and exhibition teams; practice schedules; care and purchase of equipment; development and evaluation of exercises and routines; techniques of judging. Prerequisite: 116.
- 341-3. PRINCIPLES OF PHYSICAL EDUCATION. The scientific foundations of physical education based on accepted principles of psychology, physiology, sociology, biology, educational method, philosophy, anatomy, kinesiology and related areas.
- 345A-1. OFFICIATING OF FALL SPORTS. Interpretation of rules in football, cross country, and soccer; techniques of officiating; code of ethics for officials and players; problems of officiating. Officiating practice required.
- 345B-1. OFFICIATING OF WINTER SPORTS. Interpretation of rules in basketball, wrestling, and swimming; techniques of officiating; code of ethics for officials and players; problems of officiating. Officiating practice required.
- 345C-1. OFFICIATING OF SPRING SPORTS. Interpretation of rules in baseball, track and field, tennis and golf; techniques of officiating; code of ethics for officials and players; problems of officiating. Officiating practice required.
- 350-4. METHODS AND MATERIALS FOR TEACHING PHYSICAL EDUCATION ACTIVITIES IN THE ELEMENTARY SCHOOL. (Same as Physical Education for Women 350.) The organization and conduct of the program, program planning, evaluation of materials, observation and practice in creative rhythms, singing games, folk dancing, and games of low organization. (Required for elementary education.)
- 354-4. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION AND ATHLETICS. The organization and conduct of the total program of physical education including interscholastic athletics based upon accepted educational policies and practices. Emphasis on problems of administration.
- 355-2. ASSISTING TECHNIQUES. A course giving experience in assisting techniques with as varied a program of activities as the student schedule permits; the professional and required classes as well as the intramural program furnishing experiences in officiating and assisting in teaching activities according to the season.
- 365-2. ORGANIZATION AND ADMINISTRATION OF COMMUNITY RECREATION. The social, economic, and governmental structure of the community; establishing the community recreation program; problems of facilities, equipment, finance, promotion; selecting and supervising personnel; integration with associated programs.
- 370-4. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION. (Same as Physical Education for Women 370.) Measurement as an aid in determining student needs, curriculum construction, teaching effectiveness, and the attainment of educational objectives. Includes the selection, administration, and interpretation of tests.
- 376-3. EMERGENCY CARE AND PREVENTION OF ATHLETIC INJURIES.

The theoretical and practical methods of preventing and treating athletic injuries; techniques of taping and bandaging; emergency first aid; massage; use of physical therapy modalities. Prerequisite: Physiology 300.

- 381-3. BASEBALL. Theory of coaching baseball plus the various fundamentals and techniques of this activity. Includes organization, administration, teaching techniques, and proper choice and use of the equipment. Practical work with recreation and school groups.
- 382-3. TRACK AND FIELD. Theory of coaching track and field events plus the various fundamentals and techniques of this activity. Includes organization, administration, teaching techniques, and proper choice and use of equipment. Considers the proper setting up and operating of a track and field meet. Practical work with recreation and school groups.
- 383-3. BASKETBALL. Theory of coaching basketball plus the various fundamentals and techniques of this activity. Includes setting up practice sessions, organization, administration, teaching techniques, and proper choice of equipment. Practical work with recreation and school groups.
- 384-3. FOOTBALL. Theory of coaching football plus the various fundamentals and techniques of this activity. Includes discussion of the various formations and styles of play as well as organization, administration, teaching techniques, and proper choice and use of equipment. Practical work with recreation and school groups.
- 400-4. EVALUATION IN PHYSICAL EDUCATION. Historical background and measurement of physical education; selection and evaluation of contemporary testing devices; structure and use of tests; administering the program; and interpretation and application of results.
- 402-3. ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL ACTIVITIES. Planning extramural programs of sports; planning and coordinating extramural activities commonly associated with physical education.

PHYSICAL EDUCATION FOR WOMEN

Courses leading to the Bachelor of Science in Education degree with a major in physical education are offered. A physical education major consists of forty-eight hours in addition to six activity courses and eight hours of health education.

In addition to the general degree requirements, courses constituting a major in physical education are 303, 308, 321, 322, 323, 350, 351, 352, 353, 354; Health Education 334S, 460, and the required activity courses¹ 101S, 107, 205, 212, 216, 223, 230, and 239. Electives for the physical education major are 214, 215, 222, 254, 255, 317 (choice of three); 208 or 374; 349 or 355.

Thirty hours are required for a minor in physical education. A student

¹ A major may take a proficiency examination in any required activity. She then substitutes an unfamiliar activity for the required course.

may minor in elementary school physical education or in secondary school physical education.

A health education minor for a physical education major is Health Education 100, 205, 311 or 312, 334S, 471; Physical Education 370.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students.

ACTIVITY COURSES

- 101S-1. SOCCER. Skills, team tactics, and rules of soccer.
- 107-1. FUNDAMENTAL RHYTHMS. Elements of modern and folk dance including basic locomotor movement, rhythmic analysis, and dance steps.
- 127-1. FUNDAMENTALS OF BODY MOVEMENT. Exploration and analysis of principles affecting movement; body conditioning, posture and body mechanics, relaxation techniques.
- 204-1. BEGINNING SWIMMING. Physical and mental adjustment to water; strokes and safety devices for the non-swimmer and beginner.
- 205-1. INTERMEDIATE SWIMMING. Intermediate and advanced techniques, strokes, water safety, and diving. Prerequisite: deep-water swimming ability and knowledge of a front and a back stroke.
- 206-1. VOLLEYBALL. Individual and team skills and tactics, including officiating.
- 208-1. AMERICAN SQUARE DANCE AND MIXERS. A course presenting the square dances common in various geographical areas of the United States, including many of the mixers or get-acquainted dances for starting parties.
- 212-1. BASKETBALL. Fundamental techniques, offensive and defensive team play, individual skills.
- 213-1. SOFTBALL. Fundamentals of position play, pitching, batting, and fielding techniques.
- 214-1. ARCHERY. Techniques of target shooting, including care of equipment and safety methods.
- 215-1. BADMINTON. Strokes and strategy for singles and doubles play.
- 216-1. TENNIS. Forehand, backhand, and serve are stressed. Rules and strategy for singles and doubles play.
- 218-1. RECREATIONAL SPORTS. Badminton, duck pins, shuffle board, table tennis, and other recreational sports.
- 222-1. GOLF. Fundamental techniques including the grip, stance, address, forward and backward swing, and follow-through
- 223-1. FIELD HOCKEY. Stickwork and team tactics for offense and defense play.
- 224-1. TAP DANCING. Fundamental tap steps and routines for the beginner.
- 228-1. DIVING. Techniques of springboard diving.
- 230-1. FOLK DANCING. Fundamental steps and dances of various countries.
- 233-1. MODERN DANCE. Fundamentals of rhythmic factors related to movement, and essentials of choreography.

- 239-1. **SOCIAL DANCE.** Fundamental steps of ballroom dance including the fox trot, waltz, polka, rhumba, jitterbug, and other currently popular dances. For beginners only.
- 249-1. **LACROSSE.** Fundamental skills for offense and defense; team strategy; and rules.
- 254-1. **BOWLING.** Basic techniques, rules, scoring, and strategy of ten-pin bowling.
- 255-1. **FENCING.** Elements of attack and parry, bouting, and judging.
- 316-1. **SWIMMING.** Advanced study and perfection of the recognized strokes; safety methods, diving, and fundamentals of synchronized swimming. Prerequisite: 205 or equivalent.
- 317-1. **LIFE SAVING AND WATER SAFETY.** Techniques of Red Cross life saving and water safety. The Senior Life Saving certificate is awarded upon satisfactory completion of the requirements. Prerequisite: 205 or consent of instructor.
- 377-1. **HORSEBACK RIDING.**

PROFESSIONAL COURSES

- 025-0. **ORIENTATION.** A course designated to acquaint students with physical education as a profession.
- 303-5. **KINESIOLOGY.** (Same as Physical Education for Men 303.) The mechanical analysis of physical education activities through the study of joint and muscle action. Prerequisite: Physiology 300.
- 308-5. **METHODS OF TEACHING DANCING.** A comprehensive course dealing with each of the various types of dance, including fundamentals, progressions, and composition in each type. Prerequisites: 107, 224, and 233, or equivalent. Offered in alternate years.
- 321-2 to 6. **TECHNIQUES OF TEACHING TEAM SPORTS.** Analysis of skills, strategy, and methods of teaching team sports. Fall quarter: soccer, speedball, and field hockey. Winter quarter: basketball. Spring quarter: softball and volleyball.
- 322-2 to 6. **TECHNIQUES OF TEACHING INDIVIDUAL SPORTS.** Analysis of skills, strategy, and methods of teaching individual sports. Fall quarter: archery, badminton, recreational games. Winter quarter: bowling, stunts and tumbling, trampoline, and gymnastics. Spring quarter: golf, tennis, track and field.
- 323-1 to 3. **OFFICIATING TECHNIQUES.** Study of rules and their interpretation; requirements for ratings given by the United States Field Hockey Association and the Division for Girls' and Women's Sports. Officiating practice required. Fall quarter: field hockey and soccer. Winter quarter: basketball. Spring quarter: volleyball and softball.
- 348-2 to 4. **CAMP AND COMMUNITY LEADERSHIP.** Fundamentals of scouting, camping, and counseling. A weekend camping trip required.
- 349-2 to 4. **CAMPING EDUCATION.** Designed to give the potential camp counselor an understanding of the camp; its physical set-up, equipment and necessary routines; its personnel, purposes, traditions, and possibilities.
- 350-4. **MATERIALS AND METHODS FOR TEACHING PHYSICAL EDUCATION ACTIVITIES IN THE ELEMENTARY SCHOOL.** (Same as Physical Education for Men 350.) For supervisors and teachers of phys-

- ical education. Curriculum planning, based on grade characteristics and educational philosophy, creative rhythms, singing games, folk dancing, games of low organization—skills, skill tests, lead-up games, stunts, and tumbling.
- 351-4. RECREATION FOR ATYPICAL INDIVIDUALS. Techniques of physical examination; postural defects and their correction; activities suitable for the atypical; program building; and correlation of this program with the physical education curriculum.
- 352-2. HISTORY OF PHYSICAL EDUCATION. Survey of physical education from ancient times through the modern period, showing the relation between aims and practices in physical education and social and physiological needs of different periods. Offered in alternate years.
- 353-4. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION. Criteria for the selection of activities, the organization of classes, the policies and the personnel; the physical plant and its upkeep; the planning, utilization and care of equipment in the physical education program. Offered in alternate years.
- 354-2. PRINCIPLES OF PHYSICAL EDUCATION. The fundamental principles, aims, objectives of physical education, the place of physical education in the educational program, and the problems of athletics.
- 355-3. TECHNIQUES OF TEACHING SWIMMING. Methods of teaching, analysis of strokes, and the devices for teaching swimming and life saving. Prerequisite: 205 or equivalent and consent of instructor.
- 370-4. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION. (Same as Physical Education for Men 370.) The theory of measurement in health and physical education, the selection and administration of appropriate tests, and the interpretation of results. Projects required.

INDUSTRIAL EDUCATION

The Edwardsville campuses offer neither a major nor a minor in industrial education. On alternate years a series of related courses will be offered for those desiring training in this area.

COURSE DESCRIPTIONS

Courses on the 400 level are for both undergraduate and graduate students. Those on the 500 level are for graduate students only.

- 494-3 to 4. ORGANIZATION AND ADMINISTRATION OF INDUSTRIAL EDUCATION. Principles and policies governing the administration of industrial education programs in elementary schools and junior and senior high schools; relation of federal and state supervision of industrial education to local administration.
- 495-3. to 4. OCCUPATIONAL ANALYSIS. The fundamental steps for analyzing trades and other occupations, with some thought toward establishing ap-

propriate units of instruction for the apprentice or student. Jobs, operations and essential related information are analyzed.

- 506-4. PROBLEMS OF CO-ORDINATOR. Problems and procedures involved in setting up and operating co-operative part-time and evening school programs.

INSTRUCTIONAL MATERIALS

The Education Division offers an undergraduate minor in library science. Persons trained primarily as teachers may qualify for part-time professional service in a school library by completing a minor of twenty-four hours of work in approved courses.

The required courses constituting a minor in library science are 201, 306, 308, 403, 405, 406. Electives for this minor are 417 and 420.

COURSE DESCRIPTIONS

Courses on the 200 and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students.

- 201-2. THE INSTRUCTIONAL MATERIALS APPROACH TO LEARNING. An introductory course to the study of instructional materials. A survey of the history of libraries and audio-visual centers; the complete range of materials of teaching with their unique and common characteristics; the background of the school instructional materials program.
- 306-4. SCHOOL LIBRARIES AS INFORMATION CENTERS. Evaluation, selection, and use of reference sources for elementary and secondary school libraries. Principles and methods of reference service.
- 308-4. SCHOOL LIBRARY TECHNICAL PROCESSES. Organization of library materials services for effective service to readers. Acquisition, classification, cataloguing, preparation, preservation, and circulation of materials. Laboratory assignments.
- 400-2. LIBRARY RESEARCH METHODS. Introduction to the use of library materials in graduate research. Includes a survey of scholarly publishing and the use of reference work in various subjects.
- 403-4. SCHOOL LIBRARY FUNCTIONS AND MANAGEMENT. Effective library services in relation to the educational objectives of elementary and secondary school programs; organization, supervision, finance, housing, equipment, standards, and evaluation.
- 405-4. LIBRARY MATERIALS FOR CHILDREN. Study of the aids, methods, and criteria for the selection and use of books and other instructional materials for children in the elementary schools. Open to juniors with consent of instructor.
- 406-4. LIBRARY MATERIALS FOR ADOLESCENTS. A study of the aids, methods, and criteria for the selection and use of books and other instructional materials for students in the high school. Open to juniors with consent of instructor.

- 417-4. AUDIO-VISUAL METHODS IN EDUCATION. Selection and utilization of audio-visual methods in the teaching situation, elementary through adult levels. Motion pictures, slides, filmstrips, and recordings particularly stressed. Prerequisite: Guidance 305.
- 420-4. SCHOOL LIBRARY ACTIVITIES AND PRACTICE. Supervised practice and observation integrated with instruction in the typical activities of school librarianship; storytelling, publicity, developing units of library instruction, and work with students. Prerequisites: 306, 308, 403, and 405 or 406.

NURSING

The nursing program of the Edwardsville campuses is undergoing re-evaluation. Any further developments will be announced in later bulletins.

PSYCHOLOGY

For the student working toward the Bachelor of Arts degree a major consists of forty-two hours, and a minor consists of twenty-four hours. The following courses can be counted toward the major: Guidance 305, Mathematics 220, Physiology 209.

COURSE DESCRIPTIONS

Courses on the 200 and 300 levels are for undergraduate students. Those on the 400 level may be taken by undergraduate and graduate students.

- 201-4. INTRODUCTORY PSYCHOLOGY. Introduction to the psychological nature of man, his development, motivations, emotions, learning, thinking, and perceiving.
- 301-4. CHILD PSYCHOLOGY. Development of the human person from infancy to maturity, with emphasis on the early and middle years of childhood. Prerequisite: 201.
- 303-4. ADOLESCENT PSYCHOLOGY. Intensive study of development trends and influences during the adolescent years, with consideration of the special interpersonal problems encountered in this period. Prerequisite: 201.
- 305-4. PERSONALITY DYNAMICS. Exploration of human motivations, personality patterns, and ways of coping with the stresses of modern life. Prerequisite: 201.
- 307-4. SOCIAL PSYCHOLOGY. Introduction to the field of social psychology,

with emphasis on attitude formation and intergroup relations. Prerequisite: 201.

- 311-4. EXPERIMENTAL PSYCHOLOGY. Introduction to the experimental analysis of behavior. Lecture and laboratory. Prerequisite: 201.
- 320-4. INTRODUCTION TO INDUSTRIAL PSYCHOLOGY. A study of the functions of psychology as a science and as a profession in contemporary business and industry. Prerequisite: 201.
- 407-4. THEORIES OF LEARNING. Consideration of systematic explanations of human and animal learning which have emerged from psychological laboratories. Prerequisite: 201.
- 431-4. PSYCHOPATHOLOGY. The nature, etiology, and treatment of psychological disorders. Observations in a state mental hospital. Prerequisite: 305 or consent of instructor.
- 432-4. MENTAL HYGIENE. An integration of psychological knowledge and principles concerning factors in personal life that tend to facilitate or to deter mental health. Prerequisite: 305 or consent of instructor.
- 437-3. FUNDAMENTALS OF COUNSELING. Introduction to the common assumptions, dimensions, and communicative skills underlying psychological counseling. Prerequisite: 305 or consent of instructor.
- 465-4. GROUP DYNAMICS. Development of principles of group functioning applicable to industry, schools, clinical practice, and community living. Prerequisite: 307 or consent of instructor.
- 479-4. PSYCHOLOGY OF INDUSTRIAL CONFLICT. Consideration of social and psychological factors underlying controversies between workers and management. Prerequisite: 320 or consent of instructor.
- 490-1 to 8. INDEPENDENT PROJECTS. Independent readings and projects in psychology. Prerequisite: consent of instructor.

SECONDARY EDUCATION

Secondary education concerns itself with the professional courses in education, selecting and meeting requirements for major and minor teaching areas, and advising generally those who plan to teach any age or grade in a secondary school.

A student who is preparing to teach on the secondary level may major in any of the following areas:

Art	History
Botany	Mathematics
Business	Music
Chemistry	Physical Education
English	Physics
Foreign Languages	Speech
Geography	Zoology
Government	

Students must complete all general degree requirements listed in this bulletin. In the social studies area he must take both American history and government (History 201 or 202 and Government 190 or 231 or 300). No general requirement in foreign language applies to secondary education; however, a reading knowledge of a foreign language is required unless the student's major is in art, business, government, health education, home economics, industrial education, journalism, music, physical education, physics, social studies, or speech.

The major must be at least 48 hours, with a minor of sufficient hours to meet the minimum preparation for teaching in the various fields and subjects (the major and minor being in different fields), or the student may carry a 36-hour major with two approved minors.

In addition to general university, major, and minor requirements, a student in secondary education has certain professional education requirements for certification. The following program meets the state requirements and also offers opportunity for experiences designed to produce maximum teaching effectiveness: Administration and Supervision 331-3, 355-4, Guidance 305-4, Secondary Education 315-4, 352-8, and seven or eight hours of additional professional education courses.

Students working toward the bachelor of arts degree who desire to meet only the minimum state standards for certification are to take the following program in professional education: Administration and Supervision 331-3, 355-4, Guidance 305-4, Secondary Education 315-4, 352-8, and four hours of additional professional education courses.

In either program the student should be familiar with the requirements for admission to student teaching, which are discussed in this bulletin. Also, he should check with his adviser as early as the beginning of the junior year to see that he has met or will meet the requirement of knowing the provisions and principles of the Constitution of the United States and of the state of Illinois.

ILLINOIS CERTIFICATION STANDARDS

Students preparing for certification on the secondary level in the state of Illinois are reminded that the certification standards listed below will be effective September 1, 1961. As presented in the Guide to Supervision, Evaluation, and Recognition of Illinois Schools, Kindergarten through Junior College, Circular Series A, Number 119, issued by the State Superintendent of Public Instruction, the minimum requirements for all members of the instructional staff of a recognized high school are proper certifi-

cation and a baccalaureate degree including at least fifty-two and one-half ($52\frac{1}{2}$) hours of general education, twenty-four (24) hours of professional education, and the specific preparation requirements as listed below for subject matter fields.

Art

Thirty (30) hours in the field including an appropriate distribution in such areas as (1) painting and drawing; (2) two- and three-dimensional design; (3) crafts; (4) art education; and (5) history and appreciation of art

Business Education (Non-reimbursable)

Thirty (30) hours in the field including work in each one of the fields to be taught

English Language Arts

Thirty-six (36) hours in the field, including work selected to meet the demands of the chosen teaching areas, from (1) rhetoric and grammar; (2) American literature; (3) English or world literature; (4) reading guidance; (5) speech; (6) journalism; and (7) dramatics

Foreign Language

Thirty (30) hours in each language field chosen for teaching

Health Instruction

Thirty (30) hours including work in (1) school health education; (2) basic health sciences; and (3) applied health sciences

Mathematics

Thirty (30) hours in the field

Music

Thirty (30) hours in the field including work in (1) applied music; (2) music theory; (3) conducting; (4) history of music; and (5) methods and materials for general public school music, and methods and materials for teaching string and wind instrument classes

Physical Education

Thirty (30) hours in the field including work in (1) team sports; (2) individual activities; (3) rhythms; (4) body mechanics and basic

exercises; (5) organization and administration of physical education classes; and (6) health education

Safety and Driver Education

Twenty-four (24) hours in the field including work in (1) general safety; (2) driver education; (3) traffic safety; (4) governmental safety problems; (5) industrial safety; (6) radiological safety and rescue; and (7) health education, including first aid.

Science (Biological)

Thirty-six (36) hours in the field with the work distributed among the areas of botany, zoology, physiology, and bacteriology. (The work in botany and zoology should be approximately equal in distribution of hours. The college preparation of a teacher of biology should include, in addition to botany and zoology, preparation in economic biology, ecology, entomology, physiology, and bacteriology or a general course in biology which covers these areas.)

Science (Physical)

Thirty-six (36) quarter hours in the field, with approximately one-half of the work in chemistry and one-half in the physical science area. (Work in such physical sciences as geology, astronomy, physics, and physical geography is recommended.)

Science (General)

Thirty-six (36) quarter hours in the field, with approximately one-half of the work in biological science area and one-half in the physical science area

Social Studies

Thirty-six (36) quarter hours in the field including work in (1) world history, (2) United States history, (3) government, (4) economics, (5) sociology, and (6) geography

Speech, See English Language Arts

COURSE DESCRIPTIONS

Courses on the 300 level are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students. Those on the 500 level are for graduate students only.

- 315-4. **HIGH SCHOOL METHODS.** Various types of procedures used for effective classroom teaching constitute the basis of study and discussion. The problem approach and unit method are stressed.
- 352D-8 to 12. **SECONDARY STUDENT TEACHING.**
- 352E-4 to 8. **SECONDARY STUDENT TEACHING.** Prerequisite: 352D-8.
- 407-4. **THE JUNIOR HIGH SCHOOL.** The place of the junior high school in the organizational pattern, with major emphasis upon the areas of organization, administration, and curriculum.
- 470-4. **EXTRA-CLASS ACTIVITIES.** Student expected to specialize in one extra-class activity in terms of his own interests and needs. Prerequisite: consent of instructor.
- SPECIAL METHODS COURSES.** In some fields of study special methodology courses are offered by the faculty of that subject area. See these listings in the fields of art education, business education, English, foreign languages, history, mathematics, music education, physical education and health, science, and social studies.
- 487-4. **TEACHING OF NATURAL SCIENCES IN SECONDARY SCHOOLS.** Objectives of science education; instruction methods and techniques appropriate for teaching science; desirable equipment, audio-visual aids, and instructional material; development of a course outline and at least one instruction unit. Prerequisite: 315 or consent of instructor.
- 490-4. **WORKSHOP IN ECONOMICS EDUCATION.** (Same as Economics 490.) Designed to assist elementary and secondary school teachers in promoting economic understanding through the translation of economic principles and problems into classroom teaching materials.

Courses on the 500 level are for graduate students only.

- 505-4. **IMPROVEMENT OF READING INSTRUCTION.** First course in the reading sequence; survey of reading problems; aspects of the reading process; modern practices in teaching reading.
- 507-2 to 4. **READINGS IN READING.** Independent reading; acquaintanceship with the literature and research in reading. Conference periods.
- 508-4. **SEMINAR: TRENDS IN SELECTED AREAS IN SECONDARY SCHOOLS.** For students in advanced graduate work. Individual class members will read basic bibliography related to secondary education and read widely about trends in the area of their own teaching fields. Prerequisites: completion of half or more of the work leading to a master's degree and consent of the instructor.
- 550-4. **CORE CURRICULUM IN THE SECONDARY SCHOOL.** Designed to help students gain a functional understanding of the core concept. Techniques of selecting materials and the co-operative planning of units of work. Critical study of current practices in the field. Prerequisite: Educational Administration 460.
- 562-4. **WORKSHOP IN HIGH SCHOOL CURRICULUM.** Designed to permit students to work in groups on problems related to the high school curriculum. Such problems should originate in the schools where the students are or will be employed. The point of view maintained is that procedures should be very democratic. The instructor serves as a co-

- ordinator of activity; resource people are used freely. Prerequisite: one graduate course in curriculum.
- 564-4. HIGH SCHOOL PRINCIPALSHIP. Designed to deal with problems met specifically by the high school principal. Emphasizes his role in relation to guidance, curriculum, schedule-making, extracurricular activities, public relations, budgeting of time, etc. Prerequisite: Administration and Supervision 424 and consent of instructor.
- 575-2 to 4. INDIVIDUAL RESEARCH. The selection, investigation, and writing of a research topic, under the personal supervision of a member of the departmental graduate staff, in one of the following areas: A. Curriculum, B. Supervision, C. Language Arts, D. Science, E. Reading, F. Social Studies, G. Problems in Secondary Education, H. Problems in Higher Education, J. Problems in Junior College.

SPECIAL EDUCATION

The Education Division offers an undergraduate major in special education leading to certification as teacher of the educable mentally handicapped children.

Students majoring in other areas of elementary education may qualify for this special certificate by completing selected courses in special education. Usually these courses may be taken during the junior and senior years. This arrangement enables a student to qualify for a regular teaching certificate and a special certificate.

COURSE OF STUDY IN SPECIAL EDUCATION

Required courses for a major in special education with specialization in education of the educable mentally handicapped are 410, 412, 413, 414, 420, 428; Psychology 301, 432; Guidance 305, 422; Elementary Education 314, 337; Educational Administration 331; 4-8 hours of student teaching with normal children and 12 hours of student teaching with educable mentally handicapped children.

COURSE DESCRIPTIONS

Courses on the 300 level are for undergraduate students only. Those on the 400 level are for both undergraduate and graduate students. Those on the 500 level are for graduate students only.

410-4. PROBLEMS AND CHARACTERISTICS OF THE MENTALLY RE-

- TARDED. Objectives, curriculum, methods, and materials of instruction for slow learners. Emphasis upon the principles of learning as they can be applied to this group. Observations. Prerequisite: Guidance 305 or Psychology 301 or 303.
- 412-4. EDUCATION OF GIFTED CHILDREN. Designed to help teachers in the identification of, and programming for, gifted and talented children. Prerequisite: Guidance 305 or Psychology 301 or 303.
- 413-4. DIRECTED OBSERVATION OF EXCEPTIONAL CHILDREN. Taken concurrently with a problem course in a specific area which provides student observation and participation in individual work with exceptional children. Prerequisite: consent of instructor.
- 414-4. THE EXCEPTIONAL CHILD. Physical, mental, emotional, and social traits of all types of exceptional children. Effects of handicaps in learning situations. Methods of differentiation and techniques for rehabilitation. Individual case studies used; observations and field trips. Prerequisites: Guidance 305, Psychology 301 or 303.
- 417-4. THE ATYPICAL CHILD AND SOCIAL AGENCIES. A survey of social agencies contributing to the welfare and care of exceptional children. Emphasis on services rendered and on methods of contact and cost. Visits made to agencies and institutions; specialists invited to appear before the class. Prerequisites: Guidance 305 or Psychology 301 or 303, and Sociology 101.
- 420-4. METHODS AND MATERIALS FOR TEACHING EXCEPTIONAL CHILDREN. Offered in conjunction with practice teaching, dealing with methods and materials needed in teaching specific types of exceptional children.
- 428-4. SPEECH CORRECTION FOR THE CLASSROOM TEACHER. Etiology and therapy of common speech defects. Open to in-service teachers, seniors, and graduate students in education.
- 513-4. ORGANIZATION, ADMINISTRATION, AND SUPERVISION OF SPECIAL CLASSES. Emphasis on the functions, underlying principles, and cautions to be observed in the organization and administration of special classes. The selection and training of teachers, problems of supervision, special equipment, transportation, co-operating agencies, and legal aspects of the program. Prerequisites: Guidance 305, Psychology 301 or 303.
- 577-4 to 12. PRACTICUM IN SPECIAL EDUCATION. Practical experience in working with atypical children. A minimum of 8 to 12 hours per week in the classroom with atypical children who exemplify this area of specialization. Special research project.

STUDENT TEACHING

The student teaching program at the Edwardsville campuses is administered in co-operation with the public schools of the area. Elementary and secondary teachers in these schools are selected as co-operating

teachers by the superintendent of the district and the University's coordinator of student teaching.

The student is assigned to an elementary or secondary school for a period of twelve weeks. During this period he is under the supervision of the co-operating teacher and the university supervisor. The student spends the major part of each school day with the co-operating teacher in instructional and co-curricular activities. He is inducted gradually into teaching through observation, limited participation, and finally full instructional responsibility. For this program, the student receives eight or twelve hours of credit, which fulfills the student teaching requirements for the bachelor's degree.

In addition to the eight-hour student teaching program, the student is encouraged to enroll for four to eight additional hours of student teaching as an elective in the following quarter. In the four-hour plan, the student devotes one and one-half hours per day to student teaching.

Student teaching courses available at the Edwardsville campuses are listed below:

Elementary Education

350D-8 to 12. Kindergarten-Primary Student Teaching

350E-4 to 8. Kindergarten-Primary Student Teaching Prerequisite: 350D.

351D-8 to 12. Elementary Student Teaching

351E-4 to 8. Elementary Student Teaching Prerequisite: 351D.

Secondary Education

352D-8. Secondary Student Teaching

352E-4 to 8. Secondary Student Teaching Prerequisite: 352D.

STUDENT TEACHING PREREQUISITES

1. Application must be made to the Education Division Office two full quarters before the quarter when the student desires to do his student teaching.

2. The student must have 128 hours with a "C" (3.0) average before beginning work in student teaching and a "C" (3.0) average in his professional education courses.

3. The student in secondary education must have at least 24 hours in the subject which he proposes to teach.

4. Student must have at least eleven hours in professional education courses prior to doing student teaching. Secondary education majors must

have had Educational Psychology, and High School Methods. Elementary education majors must have had Educational Psychology, Elementary School Methods, and Reading Methods. Kindergarten-primary majors must have had Educational Psychology, Kindergarten-Primary Methods, Reading Methods and must also be approved in class piano.

5. The student must have completed Speech 101 with a grade of "C" or better and a favorable recommendation from the department.

6. A student majoring or minoring in English must have completed English 300 with a grade of "C" or better. Other students must have completed English 391 with a grade of "C" or better. Students may pass a proficiency examination in lieu of English 391.

7. The student must have established at least one quarter of residence at the Edwardsville campuses of Southern Illinois University, earning a minimum of sixteen hours of credit, prior to any student teaching assignment.

8. It is imperative that all students doing student teaching take a physical examination including a tuberculin test or chest X-ray in advance of the quarter when they plan to do their student teaching. Forms for these examinations may be obtained from the Education Division Office.

9. The Education Division strongly recommends a September field experience prior to student teaching.

SEPTEMBER FIELD EXPERIENCE

The September field experience provides an opportunity for a student to participate in the varied activities of opening a new school year. The student makes his own arrangements with a local school district and reports to the assigned school in advance of the first day. In the time set aside for this experience, the student should work with the teacher and principal in routine clerical duties, assist the teacher and pupils with instructional and non-instructional duties, and observe the total school program. The student will have many experiences during the first week of school that he will be unable to get during his student teaching assignment; therefore, to benefit appreciably from this experience a minimum of one week of time should be devoted to it.

Each student is encouraged to participate in this program during the September immediately prior to his student teaching. A letter from the superintendent of the school district certifying this experience should be sent to the Education Division Office.

*FINE ARTS DIVISION**Art; Music; Speech and Theater*

The Fine Arts Division serves as an instrument of the University for the stimulation of creative and professional work in art, music, speech, and drama. Students are provided every opportunity to develop artistic talents for cultural or professional reasons. The division provides service courses and activities for all students who want experience in the fine arts field for either cultural or practical reasons.

Associate Professor Lloyd G. Blakely, Mus.A.D. (Boston)	1958
Associate Professor Herrold E. Headley, Ph.D. (North Texas State)	1958
Associate Professor Andrew John Kochman, Ph.D. (Wisconsin)	
Acting Head	1960
Associate Professor John H. Schnabel, Ed.D. (Indiana)	1957
Associate Professor Edwin B. Warren, Ph.D. (Michigan)	1957
Assistant Professor Clifton Cornwell, Jr., M.A. (Missouri)	1958
Assistant Professor Clinton D. Fjerstad, M.M. (Indiana)	1959
Assistant Professor Robert B. Hawkins, M.A. (Michigan)	1959
Assistant Professor Assen D. Kreteff, Ph.D. (Munich)	1959
Assistant Professor Catherine E. Milovich, M.A. (Columbia)	1959
Assistant Professor John A. Richardson, Ed.D. (Columbia)	1959
Instructor Kenwyn G. Boldt, M.M. (Indiana)	1959
Instructor Glen E. Howerton, M.S. (Fort Hays)	1960
Instructor John D. Randall, B.S. (Illinois Institute of Technology)	1961
Instructor Mary Belle Smith, M.A. (Iowa)	1957
Lecturer-Instructor Evelyn T. Buddemeyer, B.S. (Missouri)	1957
<hr/>	
Lecturer Maud Ellsworth, B.F.A. (Kansas)	1961-62
Lecturer Walter Kemper III, M.F.A. (Kansas)	1961

ART

The art curricula lead to the following degrees: Bachelor of Arts for students who major in art; and Bachelor of Science in Education for students who major in art education.

Undergraduate offerings in art provide both introductory and specialized experiences. Curricula are also planned for those desiring a minor in art and for those interested in art as an avocation.

The Fine Arts Division reserves the right to withhold an example of the work of each student in each class. Such works become a part of a permanent collection from which exhibitions may be prepared.

CURRICULA FOR THE BACHELOR OF ARTS DEGREE

In addition to the general degree requirements, the following requirements must be satisfied.

Required courses for a major in art: 100-15, 326, 327, 328; an additional 38 hours selected from the following: 203, 231, 245, 250, 302, 320, 323, 325, 356, 358, 385, 401, 406, 410, 416, 420, 426.

Required courses for a minor in art: 100-15; an additional 16 hours selected from the following: 230, 231, 245, 250, 302, 325, 326, 327, 328, 358, 385.

CURRICULA FOR THE BACHELOR OF SCIENCE IN EDUCATION DEGREE

Required courses for a major in art education: 100-15, 203-8 or 302-8, 300-4, 326, 327, 328, 365; an additional 22 hours selected from the following courses but no more than 8 hours from any single course: 231, 245, 250, 358, 385.

Required courses for a minor in art education: 100-15, 203-8, 300-4; 4 additional hours selected from the following: 231, 245, 250, 385.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for undergraduate and graduate students.

100-5 to 15. BASIC STUDIO. Three quarter sequence. A comprehensive survey of various technical areas of art. First-hand experience with a number of different media. Required of all art majors and minors and recommended for others interested in basic studio experience. Prerequisite to all studio courses other than 300.

120-5. ART APPRECIATION. Introductory course which examines the relationships between art and life. This course satisfies the general degree requirement.

203-4 to 12. BEGINNING CERAMICS. An exploration of the technical and aesthetic possibilities of the potter's craft. Three quarter sequence. Prerequisite: 15 hours of 100.

- 231-4. JEWELRY. Introductory course. Study of basic techniques used in construction of jewelry with emphasis on a personal and original design experience. Prerequisite: 15 hours of 100.
- 245-4 to 12. FIGURE. Three quarter sequence. A study of the human figure in terms of form, movement, structure, and use in composition accompanied by an exploration of the possibilities of various drawing and painting media. Prerequisite: 15 hours of 100.
- 250-4 to 12. OIL PAINTING. Three quarter sequence. Introductory study of oil painting as a medium of expression. Individual rather than group problems are engaged. Non-majors must secure consent of the instructor before registering. Prerequisite: 15 hours of 100.
- 300-4 to 12. ART EDUCATION. Theory and practice of art activities in the elementary schools with attention to teaching methodology. Designed primarily to meet the needs of elementary education majors.
- 302-4 to 12. BEGINNING AND ADVANCED CERAMICS. Three quarter sequence. Similar to 203 with higher level of achievement expected. Advanced subject matter adjusted with reference to number of hours previously earned in ceramics. Prerequisite: 203 or consent of instructor.
- 320-4 to 12. ADVANCED PAINTING. Three quarter sequence. Composition with transparent watercolor as well as work with oils and other media. Prerequisite: 250 and consent of instructor.
- 323-4. ADVANCED FIGURE. For art majors. Offered during spring quarter only. Prerequisite: 12 hours of 245.
- 325-2 to 12. STUDIO. Advanced independent study and research. Media of the student's selection. Approval of the instructional staff is required for selection of project and procedure.
- 326-4, 327-4, 328-4. HISTORY OF WORLD ART I, II, III. A study of painting, sculpture, and architecture from prehistoric to modern times, emphasizing the social and intellectual content of the major periods and significant styles. Prerequisite: art major or consent of instructor.
- 356-3. THEORY OF ART. A survey of literature in theory of art and its influence and relationship to art criticism and practical work. Prerequisite: 120 or a major in art.
- 358-4 to 12. PRINTS. An introduction to printmaking as a medium. Studio projects in intaglio, relief, and planographic processes. Prerequisite: 245 or 250.
- 365-4. ART EDUCATION IN THE SECONDARY SCHOOLS. For art education majors preparing to teach on secondary level; includes studio projects designed to develop awareness of technical and aesthetic needs of high school students, reading and discussion of literature, planning of curriculum.
- 385-4 to 12. WEAVING. Three quarter sequence. Development of understanding of two and four harness loom and essential processes in weaving simple and pattern textiles. Prerequisite: 15 hours of 100.
research of a historical nature with technical experimentation on the part of the painter. The project is stated in writing and submitted for
- 401-2 to 12. RESEARCH IN PAINTING. Projects undertaken combine academic approval and evaluation to a committee constituted of two art instructors and a third faculty member. Prerequisite: consent of the art faculty.

- 406-2 to 12. STUDIO IN PAINTING. Advanced independent study to be carried out under the committee established for 401. Prerequisite: 4 hours of 401.
- 410-2 to 12. RESEARCH IN PRINTS. Identical to 401 except for medium. Prerequisite: 12 hours of 358 or consent of art faculty.
- 416-2 to 12. STUDIO IN PRINTS. Advanced independent study to be carried out under the committee established for 410. Prerequisite: 4 hours of 410.
- 420-2 to 12. RESEARCH IN POTTERY. Identical to 401 except for medium. Prerequisite: 12 hours of 385 or consent of art faculty.
- 426-2 to 12. STUDIO IN POTTERY. Advanced independent study under the committee established for 420. Prerequisite: 4 hours of 420.

MUSIC

During the academic year the music staff of the Fine Arts Division brings to the campus a series of distinguished musicians who join the faculty and students for a period of workshops, seminars, and performances. The series has included such artists as Sigurd Rascher, saxophonist; Leonard Smith, cornetist; and Sidney Foster, pianist. In addition to the several public performances of the major musical ensembles, a recital series is provided.

In addition to its major courses, the music staff offers service courses in music to students in the other divisions of the University. Its major curricula lead to the following baccalaureate degrees in music: Bachelor of Arts, for students in Liberal Arts who desire a specialization in music as part of their general cultural education and Bachelor of Music, for students in the Division of Fine Arts, with specialization in music performance or in music education.

GRADUATE COURSES

In co-operation with the Education Division and the Graduate School, the Fine Arts Division offers courses in music leading to the Master of Science in Education degree. For additional information concerning the graduate program refer to the Graduate School bulletin.

GENERAL REQUIREMENTS IN MUSIC

All full-time music majors and minors must maintain a satisfactory membership in either a university band, orchestra, or chorus each quarter of their attendance. Prior to graduation, part-time students must accumulate 12 hours of credit in band, orchestra, or chorus.

Students in the Bachelor of Music curricula with specialization in music performance must present a half-recital in their junior year and a full recital in their senior year. Students in the Bachelor of Music curriculum with a specialization in music education are encouraged to present a half-recital in their junior year and are required to present a half-recital in their senior year.

Attendance at all campus recitals is required of music majors. A deficiency in recital attendance for any one quarter will result in the student's being placed on probation the following quarter.

Each candidate for the Bachelor of Music degree must pass a proficiency examination in piano as early as possible in his course of study. A student with no previous preparation in piano should elect class piano during his freshman and sophomore years. If he fails to meet the basic piano requirements at the end of this time, he must continue in class piano without credit until he passes the test. The student is expected to demonstrate piano facility as follows:

1. Ability to sight read music of the type found in a community song book.

2. Play from memory the following: (a) *The Star-Spangled Banner*, keys of B-flat and A-flat, (b) *America*, keys of G and F.

3. Ability to harmonize at sight, improvising a simple piano accompaniment, songs, requiring the use of I, IV, and V chords and simple modulation; also to transpose the songs and harmonizations to other keys.

4. Ability to sight read fairly fluently simple accompaniments, vocal or instrumental, and simple piano compositions of the type used for elementary school rhythmic activities.

5. Sight read a combination of any two lines of a four-part vocal score of literature used in a secondary school choral program. Vocal-choral majors in music education are to sight read the entire four-part score.

6. Ability to play all major and minor scales.

7. Ability to play short works, from memory, in both contrapuntal and harmonic styles.

A student with specialization in music education must also pass a proficiency test in voice or elect class voice until he can pass the proficiency test. The student is expected to demonstrate, through the singing of simple songs, basic principles of singing: breathing, posture, good intonation, diction, and range.

It is the responsibility of each student, with the assistance of his adviser and instructors, to meet these minimum requirements.

BACHELOR OF ARTS DEGREE

The curriculum for the music major working toward the Bachelor of Arts degree is designed for students who wish to specialize in music as part of their general cultural education. It is also designed to provide a background training for those who may plan to pursue advanced studies in such fields as music criticism and aesthetics.

Including the general degree requirements, the following program is suggested:

	<i>Hours</i>
Social Studies	24
Humanities	18
Biological Sciences	9
Mathematics and Physical Sciences	12
Physical Education	3
French or German	24
Electives	6
	—
Total	96

Required Music Courses

	Music Major	Music Minor
Music 101, 102, 103	6	6
Music 105, 106, 107	12	12
Music 205, 206, 207	12	
Music 330, 331, 332	6	
Music 326, 327, 328	6	
Performance Major	24	12
Ensemble	12	6
Electives	18	6
	—	—
Total	96	42

BACHELOR OF MUSIC DEGREE

General degree requirements of the University should be met during the first two years according to one of the following two plans. *Plan I* is recommended for the student with specialization in music performance. This plan is also suggested for those students desiring to major in probable

future specializations in music theory-composition, music history-literature, or church music.

Plan II is suggested for student specializing in music education.

Plan I

REQUIREMENTS	HOURS	COURSES
Social Studies	10	Economics 205, Geography 100, Government 190, History 101, 102, 103, Sociology 101 (work in two of the five areas)
Humanities	46-58	
English	9	English 101, 102, 103
Literature	6	English 209, 211, or 212
Speech	4	Speech 101
Language ¹	12-24	French 101, 102, 103; German 101, 102, 103
Art	3	Art 120
Music History-Literature	12	Music 101, 102, 103; 330, 331, 332
Biological Science	4	Health Education 100
Physical Science	4	Activity courses
Physical Education	3	Physics 101

Plan II

Social Studies ²	15	Economics 205, Geography 100, Government 190 or 231, History 201 or 202, Sociology 101 (work in three of the five areas)
Humanities	34-46	
English	9	English 101, 102, 103
Literature	6	English 209, 211, or 213
Speech	4	Speech 101
Language ³	12	French 101, 102, 103, or German 101, 102, 103
Art	3	Art 120
Music History-Literature	12	Music 101, 102, 103, 330, 331, 332
Biological Science	4	Health Education 100
Physical Science	4	Physics 101
Physical Education	3	Activity courses

¹ Voice majors in music performance must take one year each of French and German. Students in performance specializations other than voice and those with probable future specializations in music theory-composition, music history-literature, or church music, should consult with their adviser as to the sequence to be followed in languages.

² American History 201 or 202 or Government 190 is required of the student with specialization in music education.

³ One year of French or German is recommended for the student with vocal-choral emphasis in music education. Modern language is not required of the student with instrumental, or combined choral-instrumental specialization in music education.

PIANO

To enter the four-year degree course in piano, the student should be grounded in reliable technique. He should play all major and minor scales correctly in moderately rapid tempo, also broken chords in octave position in all keys, and should have acquired systematic methods of practice. He should be able to read simple music at sight.

The student should have studied some of the standard etudes, such as Czerny, *Op. 299, Book I*; Heller, *Op. 46 and 47* (according to the individual needs of the pupil); Bach, *Little Preludes*; a few Bach two-part inventions and compositions corresponding in difficulty to Haydn, *Sonata No. 11, G Major, No. 20* (Schirmer); Mozart, *Sonata in C Major, No. 3, F Major, No. 13* (Schirmer); Beethoven, *Variations on Nel cor piu, Sonata Op. 49, No. 1, Op. 14, Nos. 1 and 2*; Schubert, *Impromptu Op. 142, No. 2*.

ORGAN

To enter the four-year degree course in organ the student should be grounded in reliable technique. He first must have completed the requirements for admission to the piano major or the equivalent organ performance.

VOICE

The applicant should give evidence of ability to sing simple standard or classic art songs with adequate tone quality and intonation.

Generally, the amount of required repertoire for each quarter will depend upon the amount of credit for which the student is enrolled.

If the student is enrolled for two hours of credit, he will sing six new songs with musical accuracy, one of which will be sung in English; and three of the six are to be sung from memory.

If the student is enrolled for four hours of credit, he will sing eight new songs with musical accuracy, two of which will be sung in English; and five of the eight are to be sung from memory.

Voice Committee Examinations

The following requirements must be met when the student has his quarter examination:

1. The student will sing, from memory, one song of his own choice.
2. He must be prepared to sing any portion of any of the memorized songs at the request of any faculty member.

3. The student should be prepared to sing in English at least one song from the quarter's repertoire, whether memorized or not.

4. He must bring printed music for all songs studied during the quarter.

STRING INSTRUMENTS

Requirements for admission: two-octave major and minor scales and arpeggios; basic studies and simple solos to demonstrate cantelena style and technical ability. For information concerning repertoire for violin, viola, violincello, and string bass, please apply to the Fine Arts Division.

WIND INSTRUMENTS

The candidate shall show evidence of:

1. Basic development in embouchure and articulation.
2. Knowledge of fingering and alternates.
3. Satisfactory tone quality and control.
4. Ability to play major scales through four flats and four sharps, at 144 eighth notes per minute, and the chromatic scale both slurred and articulated.
5. Minimum two-octave range.
6. Ability to play a simple song demonstrating musicianship which includes phrasing and expression.
7. Previous study in the equivalent of the Rubank Advanced Method.
8. Previous ensemble experience in band or orchestra.
9. Ability to play at sight representative literature which is characteristic of the instrument. For information concerning repertoire for flute, oboe, clarinet, saxophone, bassoon, trumpet, french horn, trombone, and tuba, please apply to the Fine Arts Division.

PERCUSSION INSTRUMENTS

The candidate shall demonstrate satisfactory performing ability in at least one of the following areas of percussion performance: snare drum, xylophone-marimba, and timpani.

These competencies include:

1. The ability to perform a solo,
2. The ability to perform an excerpt from a book in which the applicant has studied that will demonstrate musicianship and technical skill,

3. The ability to play at sight representative literature which is characteristic of the instrument.

4. Previous ensemble experience in band or orchestra.

Additional competencies for snare drum include basic knowledge of rudiments and the performance of a Sousa march or the equivalent.

Additional competencies for xylophone-marimba include the ability to play major scales through 4 flats and 4 sharps in one octave.

Additional competencies for timpani include basic knowledge of timpani techniques and a thorough knowledge of range of each timpano.

MUSIC EDUCATION CURRICULUM

Courses required for the major for a student seeking the Bachelor of Music Education degree are Music (music theory) 105, 106, 107, 205, 206, 207, 309, 310, 311, 326, 411 or 443, 442; (music-literature) 330, 331, 332; (music education) 330A, 303, 305I, 305V, 318, 319, 320; (applied music) 12 quarters of major ensemble, 12 quarters of major instrument or voice. Some prerequisites for student teaching are piano proficiency or piano class (maximum of 12 hours), voice proficiency or voice class (maximum of 1 hour), and 2 quarters each of class woodwinds, brass, and strings.

All candidates for the Bachelor of Music Education degree must meet the general degree requirements.

For the education requirements, please see the Education Division in this bulletin.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level may be taken by undergraduate and graduate students. Those on the 500 level are for graduate students only.

Theory Courses

105-4, 106-4, 107-4. THEORY OF MUSIC. Fundamentals of music through sight singing, dictation, written, and keyboard harmony.

200-3. FUNDAMENTALS OF MUSIC. A one-quarter course in the rudiments of music designed for those with little or no musical background, recommended as a course preliminary to 300, Music Education-Elementary, for nonmusic majors. Prerequisite: piano proficiency.

205-4, 206-4, 207-4. THEORY OF MUSIC. Continuation of 105, 106, 107. Ad-

- vanced harmonic techniques, modulation, altered chords, chromatic harmony, and introduction to contemporary harmonic principles. Prerequisite: 107.
- 309-2, 310-2, 311-2. ORCHESTRATION I, II, III. The techniques of writing for orchestra and band. Practical work in scoring. Performance of scores by university ensembles. Prerequisite: 207.
- 312-2, 313-2. COMPOSITION I, II. Original composition in the smaller forms for piano, voice, string quartet, and other small combinations. Prerequisite: 207.
- 314-2. COMPOSITION III. Original composition in the larger forms. Prerequisite: 313.
- 326-2, 327-2, 328-2. ANALYSIS I, II, III. Detailed analysis of all important musical forms and styles from plain song through the 12-tone technique. To be taken concurrently with 330, 331, 332. Prerequisite: 207.
- 441-2. SIXTEENTH-CENTURY COUNTERPOINT. Analysis and creative writing in the style of Palestrina and his contemporaries. Prerequisite: 207.
- 442-2. EIGHTEENTH-CENTURY COUNTERPOINT. Analysis and creative writing in the contrapuntal-harmonic technique of Bach and his contemporaries. Prerequisite: 207.
- 443-2. CANON AND FUGUE. Analysis and creative writing of the larger imitative forms. Prerequisite: 442.
- 502-3. HISTORY AND ANALYSIS OF MUSICAL STYLE. Study of style in relation to evolution of musical materials.

History and Literature Courses

- 100-3. MUSIC UNDERSTANDING. An introductory course designed for non-music majors or for prospective music majors with background deficiencies. Emphasis on background, purpose, and structure of representative compositions.
- 101-2, 102-2, 103-2. INTRODUCTION TO MUSIC LITERATURE AND HISTORY. Designed to develop a technique for intelligent listening and to introduce the student to the important composers, periods, styles, and forms in music history. Required of all music majors and minors; non-music majors may enroll with consent of instructor. Prerequisite to all courses in music history and literature.
- 315-3. OPERATIC LITERATURE. A survey of operatic literature from its beginning to the present day. Live and recorded music augments the discussions.
- 330-2, 331-2, 332-2. MUSIC HISTORY AND LITERATURE. An integrated course devoted to the development of musical thought and literature from the early Greek and Roman periods through the Renaissance. Music 331 is a continuation of 330 through the seventeenth, eighteenth, and early nineteenth centuries. Music 332 is a continuation of 331. Wagner, the rise of nationalism, late nineteenth- and twentieth-century composers. Prerequisites: 101, 102, 103.
- 353-3. ORGAN LITERATURE. A study of the literature for the organ with emphasis upon music for the church service.

- 411-3. **SYMPHONIC LITERATURE.** A study of the development of the symphony and the symphonic poem. Prerequisites: 330, 331, 332.
- 412-3. **CHORAL LITERATURE.** The literature of the larger vocal forms such as the cantata and oratorio. Prerequisite: 330, 331, 332.
- 413-3. **CHAMBER MUSIC LITERATURE.** Study of chamber music from the Renaissance to the present. Prerequisites: 330, 331, 332.

Church Music Courses

- 347-3. **CHURCH MUSIC I.** Study of the great liturgies of all denominations: early Christian, Catholic, Greek Orthodox, Jewish, Anglican, Lutheran, and Protestant, together with their historical and contemporary significance.
- 348-3. **CHURCH MUSIC II.** Study of the music used in the contemporary church with an emphasis upon the anthem and the choral response.
- 349-3. **CHURCH MUSIC III.** (Hymnology) Survey of the great hymns of the ages, their history, interpretation and significance.

Music Education Courses

- 300-3. **MUSIC EDUCATION—ELEMENTARY.** Teaching music in the elementary grades. For nonmusic majors only. Prerequisite: 200 or equivalent.
- 301-3. **MUSIC EDUCATION IN THE ELEMENTARY SCHOOL.** Music in the elementary school curriculum, grades K-6. Analysis of instructional materials, development of rhythmic and melodic expressions, creative, instrumental, listening activities. Creating a musical environment in the classroom. For music majors only.
- 302-3. **MUSIC EDUCATION IN THE JUNIOR HIGH SCHOOL.** Curriculum, organization, and administration of choral, instrumental, and general music classes; resource units; the adolescent voice. Prerequisite: 301.
- 303-3. **MUSIC EDUCATION IN THE SENIOR HIGH SCHOOL.** Curriculum, organization, and administration of choral, instrumental, and general music classes. Prerequisite: 302.
- 318-2. **CONDUCTING—GENERAL.** Fundamental conducting patterns, size of beats, use of each hand; conducting experience with laboratory groups both choral and instrumental; discussion and study of musical terminology.
- 319-2. **CONDUCTING—CHORAL.** Continued conducting experience through laboratory group; study of rehearsal techniques, balance, blend, and the relationship of parts to the total ensemble; evaluation and analysis of literature suitable for school groups of all levels of ability. Prerequisite: 318.
- 320-2. **CONDUCTING—INSTRUMENTAL.** Continued conducting experience through laboratory group; study of rehearsal techniques, balance, blend, and the relationship of parts to the total ensemble; evaluation and analysis of literature suitable for school groups of all levels of ability. Prerequisite: 318.
- 451-2. **THE TEACHING OF GENERAL CLASSROOM MUSIC IN THE JUNIOR AND SENIOR HIGH SCHOOL.**

- 455-2. WORKSHOP FOR ELEMENTARY MUSIC EDUCATION
 461-2. TEACHING TECHNIQUES AND MATERIALS FOR THE INTER-MEDIATE LEVELS. Piano or voice. Designed to meet the needs of piano or voice specializations in the Bachelor of Music or the Master of Music degree programs. Problems of private studio, teaching and college-level teaching are studied.
 462-2. TEACHING TECHNIQUES AND MATERIALS FOR THE ADVANCED STUDENT. Piano or voice. Continuation of 461.

Courses on the 500 level are for graduate students only.

- 550-2. ORGANIZATION AND ADMINISTRATION OF THE MUSIC EDUCATION PROGRAM—ELEMENTARY.
 553-3. SEMINAR IN CHORAL MATERIALS AND TECHNIQUES.
 554-3. SEMINAR IN INSTRUMENTAL MATERIALS AND TECHNIQUES.
 560-2 to 3. SEMINAR IN MUSIC EDUCATION. A study of trends, current practice, philosophies of music education.

UNDERGRADUATE MUSIC PERFORMANCE COURSES

Ensembles:

- 001-1. UNIVERSITY BANDS.
 002D-1/2. UNIVERSITY CHORUS.
 002C-1. COLLEGIATE SINGERS.
 003-1. UNIVERSITY SYMPHONY ORCHESTRA.
 345-1. MADRIGAL SINGERS.
 346-2 to 12. OPERA WORKSHOP.
 355-1. CHAMBER MUSIC. String ensemble, quartet.
 365-1. CHAMBER MUSIC. Woodwind and brass ensemble.

Private instruction is offered in the following areas of applied music. Credit varies from one to four hours. Consult with adviser for details of credit and requirements.

- | | |
|------------------|------------------|
| 011. VIOLIN | 031. PERCUSSION |
| 012. VIOLA | 041. PIANO |
| 013. CELLO | 051. FRENCH HORN |
| 014. STRING BASS | 052. TRUMPET |
| 021. FLUTE | 053. TROMBONE |
| 022. OBOE | 054. TUBA |
| 023. CLARINET | 055. BARITONE |
| 024. BASSOON | 061. VOICE |
| 025. SAXOPHONE | 071. ORGAN |

Class instruction is offered in all areas of applied music. These courses include the minimum instruction required for passing the proficiency examinations in piano and voice and they offer practical training in the basic principles of playing the instruments of the orchestra and band. They also include introductory techniques and methods for teaching instrumental and vocal groups in the elementary and secondary schools. Each course is offered for one hour of credit each quarter.

- | | |
|--------------------|-------------------------|
| 010a. CLASS VIOLIN | 010d. CLASS STRING BASS |
| 010b. CLASS VIOLA | 020a. CLASS FLUTE |
| 010c. CLASS CELLO | 020b. CLASS OBOE |

020c. CLASS CLARINET
 020d. CLASS BASSOON
 020e. CLASS SAXOPHONE
 030. CLASS PERCUSSION
 040. CLASS PIANO
 050a. CLASS FRENCH HORN

050b. CLASS TRUMPET
 050c. CLASS TROMBONE
 050d. CLASS TUBA
 050e. CLASS BARITONE
 060. CLASS VOICE

GRADUATE APPLIED MUSIC COURSES

Candidates for the master's degree who wish to choose applied music courses as electives will take the 400-series course in their major instrument or voice for two hours of credit per quarter.

Elective courses in applied music in major instrument or voice:

471-2 to 8. PRIVATE PIANO
 472-2 to 8. PRIVATE VOICE
 473A-2 to 8. PRIVATE VIOLIN
 473B-2 to 8. PRIVATE VIOLA
 473C-2 to 8. PRIVATE VIOLONCELLO
 473D-2 to 8. PRIVATE BASS VIOL
 474A-2 to 8. PRIVATE FLUTE
 474B-2 to 8. PRIVATE OBOE
 474C-2 to 8. PRIVATE CLARINET
 474D-2 to 8. PRIVATE BASSOON
 474E-2 to 8. PRIVATE SAXOPHONE
 475A-2 to 8. PRIVATE TRUMPET
 475B-8 to 8. PRIVATE FRENCH HORN
 475C-2 to 8. PRIVATE BARITONE
 475D-2 to 8. PRIVATE TROMBONE
 475E-2 to 8. PRIVATE TUBA
 476-2 to 8. PRIVATE ORGAN

SPEECH AND THEATER

Required courses constituting a major in speech: 101, 102, 103, 202, and additional courses to total 48 hours. All speech majors and minors working for a secondary education degree must take 306.

Required courses constituting a minor in speech: 101, 102, 103, 202, and additional courses to total 24 hours.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students.

Speech Courses

101-4. PRINCIPLES OF SPEECH. Development of an understanding of basic

- principles and proficiency in the skills involved in everyday communications. Prerequisite to all other courses in speech except 108, 201, 303, 340, 428, unless by consent of instructor and the division.
- 102-4. PUBLIC SPEAKING. Analysis of audience motives and reactions stressed in the approach to speech preparation for typical public speaking situations.
- 103-4. ORAL INTERPRETATION. A basic course for speech majors, teachers, preachers, and those interested in the analysis of good literature and the oral communication of the literature to an audience.
- 104-4. TRAINING THE SPEAKING VOICE. Designed for those students who desire to improve their voice and articulation.
- 201-2. PARLIAMENTARY LAW. How to conduct a meeting. Study and practice of the rules of parliamentary procedure.
- 202-3. PRINCIPLES OF DISCUSSION. Principles and methods of group discussion. Current problems used as materials for discussion.
- 205-3. PRINCIPLES OF ARGUMENTATION AND DEBATE. Principles of argument, analysis, evidence, reasoning, fallacies, briefing, and delivery. Prerequisites: Speech 101, 102 or 202.
- 209-1. FORENSIC ACTIVITIES. Not more than three hours of credit, and no more than two each year, to be secured for participation in forensic activities. No credit in excess of 9 hours allowed for forensic and dramatic activities courses.
- 213-4. SPEECH COMPOSITION. Rhetorical techniques of public address. One major speech prepared, with every possible refinement. Prerequisite: Speech 102.
- 257-4. FUNDAMENTALS OF BROADCAST WRITING.
- 273-2. BASIC RADIO PRODUCTION.
- 301-4. PERSUASION. Psychological principles involved in influencing individuals and groups. Prerequisites: Psychology 201 and 12 hours of speech, or consent of instructor.
- 303-4. BUSINESS AND PROFESSIONAL SPEAKING. Speaking needs of business and professional people. Technical reports and lighter types of speaking included in the types studied. Primarily for adult and extension classes.
- 306-4. TEACHING SPEECH IN SECONDARY SCHOOLS. Philosophy of speech education, and effective teaching of speech through curricular and extracurricular work. Required of majors and minors working for a secondary education degree in the Education Division. Prerequisite: 16 hours of speech.
- 393-2. RADIO, TV, AND SOCIETY.
- 407-4. HISTORY OF AMERICAN PUBLIC ADDRESS I. Critical studies of American speakers; a study of selected speakers and speeches which reflect the dominant social and political ideas in American history. A lecture, reading, and discussion course.
- 408-4. PSYCHOLOGY OF SPEECH. Nature and development of speech, its basic psychology, and the part speech plays in personality development.
- 413-4. HISTORY OF AMERICAN PUBLIC ADDRESS II. A continuation of 407; may be taken independently.
- 428-4. SPEECH CORRECTION FOR THE CLASSROOM TEACHER.

449-4. GENERAL SEMANTICS. Study of the relationships between spoken language and reality and case studies of communications breakdowns.

Theater Courses

106-4. INTRODUCTION TO THE THEATER.

111-3, 112-3, 113-3. STAGING TECHNIQUES. Lectures and practical experience in all phases of dramatic production in connection with departmental public presentations. A year course for majors; for nonmajors one quarter is prerequisite to all courses numbered over 200.

204-4. ACTING. Basic techniques of acting in all dramatic media. Emphasis on expression through bodily action and movement.

208-1 to 3. DRAMATIC ACTIVITIES. Credit to be earned by participation in public performances.

308-1 to 3. DRAMATIC ACTIVITIES. Same as 208. Majors may elect up to twelve hours of 208 and/or 308.

310-3. CHILDREN'S THEATER.

312-4. STAGE DESIGN. The design of settings for the stage and other dramatic media.

313-4. HISTORY OF THEATER.

402-4. DIRECTING. Selection of plays, casting, and methods of rehearsal. Development of characterization, control of tempo, and similar problems studied. Students to direct or to aid in directing one-act plays and major productions.

HUMANITIES DIVISION

English; Foreign Languages; Journalism; Philosophy

The Humanities Division provides instruction in the intellectual disciplines of English and other languages, of literature, and of ideas. The division is concerned with instruction in the reading, writing, and speaking of English and other languages, the development of an understanding and appreciation of literature, and the concomitant recognition of its civilizing values. The division guides advanced students in methods of studying the works, men, and movements that make up literary and intellectual history. All students are encouraged to think and to write rationally, imaginatively, and responsibly as they learn to identify persistent human problems and their classic and current solutions.

Professor William T. Goings, Ed.D. (Michigan)	1957
Professor Nicholas T. Joost, Ph.D. (North Carolina), Head	1958
Associate Professor James C. Austin, Ph.D. (Western Reserve)	1960
Associate Professor Milton B. Byrd, Ph.D. (Wisconsin)	1958
Associate Professor Robert W. Duncan, Ph.D. (Cincinnati)	1957

Associate Professor Paul F. Guenther, Ph.D. (North Carolina)	1960
Associate Professor Charles S. Hensley, Ph.D. (Missouri)	1960
Associate Professor Ruth J. Kilchenmann, Ph.D. (Southern California)	1958
Associate Professor Gerald J. T. Runkle, Ph.D. (Yale)	1959
Associate Professor Raymond J. Spahn, Ph.D. (Northwestern)	1957
Associate Professor Jack B. Thomas, Ph.D. (Indiana)	1958
Assistant Professor Bertrand Ball, Jr., Ph.D. (Southern California)	1959
Assistant Professor A. Edwin Graham, Ph.D. (Princeton)	1959
Assistant Professor Ann Elizabeth Jones, Ph.D. (Michigan)	1961
Assistant Professor Charles Parish, Ph.D. (New Mexico)	1959
Assistant Professor Marion A. Taylor, Ph.D. (Iowa)	1958
Assistant Professor Myron W. Taylor, Ph.D. (Washington University)	1959
Assistant Professor Jules Zanger, Ph.D. (Washington University)	1960
Instructor John I. Ades, M.A. (Cincinnati)	1958
Instructor Vernon T. Hornback, M.A. (St. Louis)	1959
Instructor Robert Murdoch, M.A. (Washington University)	1957
Instructor W. Winslow Shea, A.B. (Yale)	1958
Instructor Gladys Roberta Steinman, M.A. (Illinois)	1957
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Lecturer Albert S. Carter, Jr., M.A. (Princeton)	1959-62
Lecturer Donald E. Dolton, M.A. (Oklahoma State)	1959-62
Lecturer Herman A. Driefke, M.A. (Washington University)	1959-62
Lecturer Garry N. Murphy, M.A. (Cincinnati)	1960-62
Lecturer Peter L. Simpson, M.A. (St. Louis)	1959-62
Lecturer Robert G. Stanley, M.S. (Kansas State)	1959-62

ENGLISH

The English major is forty-eight hours. Fifteen of these are represented by 101, 102, 103, and two courses from the 200 series. The major should also complete the general degree requirements as soon as possible.

In the junior year the major should have 300, 302, 309, 310, 316, 317. English 300 is a prerequisite to student teaching for English majors and minors. The remaining junior-senior courses should be chosen so that they include at least one course of each of the seven groups listed below:

Poetry: 320, 321, 330, 370, 405.

Drama: 360, 361, 365, 366, 463, 464.

Fiction: 308, 335, 354, 355, 457, 458.

The Elizabethan age: 360, 365, 366, 424.

The seventeenth-eighteenth century period: 314, 315, 354, 361, 370, 431.

The nineteenth century: 308, 320, 321, 326, 355.

The twentieth century: 330, 335, 405, 406, 408, 457, 458, 463.

This minimum major should be supplemented in various ways by adding period surveys like 314, 315; advanced composition 390, 392, 492, 493; language studies 400, 403; criticism 407, 469; teaching English 485; membership in the English Club; and supplementary reading. The major must have four hours in philosophy or psychology and one year of foreign

language, preferably German or French (at least nine hours). Two years would be preferable.

The major should consult the departmental senior adviser as soon as he knows that he will major in English, and should thereafter have his registration approved by this adviser each quarter. Deviations from the generally prescribed major requirements should not be made without prior approval.

The English minor is 26 hours, prescribed as follows: from freshman work, 2 hours; from sophomore work, 6 hours; 300; 309 and 310; 302 and 316, or 316 and 317.

Students beyond the freshman level who desire additional instruction in understanding and writing the English language should consider (1) auditing or repeating for credit English 101, 102, or 103; or (2) enrolling in English 390 or 391. The student should be guided by the descriptions of these courses and by the advice of the English staff.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Students can proceed to the 200 level only after completing the sequence of 100-level courses and can proceed to the 300 level only after completing the 200-level requirements. Those on the 400 level are for both undergraduate and graduate students. Those on the 500 level are for graduate students only.

101-3, 102-3, 103-3. COMPOSITION. Expository writing, with emphasis upon language and usage. Analysis of readings that illustrate the various types of required compositions, including the research paper. 101 prerequisite to 102; 102 prerequisite to 103.

- 205-3. INTRODUCTION TO POETRY. Readings in nondramatic verse with emphasis upon understanding of content, types, and techniques as well as upon competence in analysis and evaluation.
- 206-3. INTRODUCTION TO DRAMA. The form, artistry, and ideas of various plays from most of the notable literary periods. Approximately twenty plays read.
- 209-3. INTRODUCTION TO WORLD LITERATURE. A reading of masterpieces of world literature of various periods.
- 211-3. INTRODUCTION TO FICTION. An examination of the novel and the short story; designed to acquaint the student with the important aspects of artistic excellence in this form.
- 212-3. INTRODUCTION TO MODERN LITERATURE. Principal forms, ideas, and writers of the literature of America and England in the twentieth century. Especially recommended to majors in other fields than English.
- 300-4. PRINCIPLES OF ENGLISH GRAMMAR. Required of majors and minors in English. Majors and minors other than in English should take 391. Credit not allowed for both courses.
- 302-4. ENGLISH LITERATURE TO 1550. Required of English majors.
- 308-4. AMERICAN NOVEL. Emphasis on Cooper, Hawthorne, Melville, Twain, James, Dreiser, and Crane.
- 309-4. A SURVEY OF AMERICAN LITERATURE TO 1860.
- 310-4. A SURVEY OF AMERICAN LITERATURE SINCE 1860.
- 314-4. SEVENTEENTH-CENTURY LITERATURE.
- 315-4. EIGHTEENTH-CENTURY LITERATURE.
- 316-4. ENGLISH LITERATURE, 1550 to 1750. Required of majors.
- 317-4. ENGLISH LITERATURE AFTER 1750. Required of majors.
- 320-4. EARLY NINETEENTH-CENTURY POETRY.
- 321-4. VICTORIAN POETRY, 1830 to 1880.
- 326-4. NINETEENTH-CENTURY PROSE. English nonfiction prose of the last century.
- 330-4. MODERN BRITISH POETRY.
- 335-4. THE SHORT STORY.
- 354-4. DEVELOPMENT OF THE ENGLISH NOVEL. From Defoe through Scott.
- 355-4. THE VICTORIAN NOVEL.
- 360-4. ENGLISH DRAMA TO 1642.
- 361-4. RESTORATION AND EIGHTEENTH-CENTURY DRAMA.
- 365-4. SHAKESPEARE. The chief comedies and histories.
- 366-4. SHAKESPEARE. The chief tragedies.
- 369-4. HISTORY OF LITERARY CRITICISM. The ideas and techniques of criticism, from Aristotle to the end of the nineteenth century.
- 370-4. MILTON.
- 390-3. ADVANCED COMPOSITION. Expository writing.
- 391-3. USAGE IN SPOKEN AND WRITTEN ENGLISH. The essentials of grammar and the "common decencies." Prerequisite to student teaching, except for English majors and minors, who take 300.
- 392-3. PROFESSIONAL WRITING I. Introductory course for undergraduates. Prerequisite: consent of instructor.
- 400-4. STRUCTURAL LINGUISTICS. An analysis of the structure of modern

- English, to supplement the student's traditional approach to grammar with a knowledge of the contemporary structural approach to language.
- 402-4. CHAUCER.
- 403-4. THE ENGLISH LANGUAGE. A history. Knowledge of German a desirable preparation for the course.
- 406-4. AMERICAN DRAMA. The rise of the theater in America, with reading of plays, chiefly modern.
- 407-4. LITERARY CRITICISM IN THE UNITED STATES.
- 408-4. INTELLECTUAL BACKGROUND OF AMERICAN LITERATURE. The relationship of basic ideas in America to American Literature. Prerequisite: 309 or 310.
- 413-4. ENGLISH LITERATURE, 1660-1744.
- 431-4. AMERICAN LITERATURE TO 1789.
- 457-4. CONTEMPORARY BRITISH FICTION. Outstanding figures, influences, and trends in the British novel and short story since 1900.
- 458-4. CONTEMPORARY AMERICAN FICTION. Trends and techniques in the American novel and short story since 1914.
- 463-4. MODERN BRITISH DRAMA.
- 467-4. STUDIES IN PROSE STYLE. Analysis of the methods and devices used by prose writers to obtain aesthetic and emotional effects.
- 468-4. AESTHETICS OF LITERATURE. The basic principles of literary composition and appreciation in the lights of recent aesthetic theory.
- 469-4. MODERN CRITICISM.
- 485-4. PROBLEMS IN THE TEACHING OF ENGLISH. Aims, methods, materials, tests, programs, and other aspects of English instruction in the high school.
- 486-2 to 8. WORKSHOP IN HIGH SCHOOL ENGLISH. Intensive workshop study in lectures, laboratory, conferences, to arrive at agreement on the teaching of English in high school. Curriculum, materials, methods, aims. Directed by competent authorities in the field.
- 487-2 to 8. WORKSHOP IN JUNIOR HIGH SCHOOL ENGLISH. Intensive workshop study in lectures, laboratory, conferences, to arrive at agreement on the teaching of English in junior high school. Curriculum, materials, methods, aims. Directed by competent authorities in the field.
- 492-4. PROFESSIONAL WRITING II. Prerequisites: 392, consent of instructor.
- 493-4. PROFESSIONAL WRITING III. Prerequisites: 492, consent of instructor.
- 499-2 to 6. READINGS IN ENGLISH. For English majors only. Only four hours may be taken in any one quarter. Prerequisite: consent of division.
- Courses on the 500 level are for graduate students only.
- 501, 502, 503-4 to 8. INDIVIDUAL AMERICAN WRITERS. Each course the intensive study of an American author selected for that quarter.
- 521, 522, 523-4 to 8. INDIVIDUAL ENGLISH WRITERS.

JOURNALISM

The Edwardsville campuses offers neither a major nor a minor in

Journalism. The following courses, however, may be elected by any student who desires elementary specialized training in this field.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students.

- 103-3. NEWS. Study of the newspaper story with experience in writing and rewriting news; the fundamentals of copyreading.
- 201-3, 202-3, 203-3. NEWS WRITING AND EDITING I, II, III. How to cover assignments and write news stories; preparation of copy for publication; writing headlines, laboratory experiences.
- 330-3. EDITORIAL WRITING. The work and responsibility of the editor and editorial writer with emphasis upon editorial writing and thinking. Editorial problems, methods, policies, and style.
- 370-3. PRINCIPLES OF ADVERTISING. Advertising fundamentals in relation to modern business activities; economic and social aspects, research, media, appeals, production, schedules. Prerequisite: Economics 205.
- 391-3. FEATURE WRITING.

FOREIGN LANGUAGES

For a major in a language, a student in education must complete 38 hours exclusive of 101, 102, and 103; and a student seeking the Bachelor of Arts degree, 42 hours exclusive of 101, 102, and 103, in addition to general degree requirements. At least one English and one history course numbered 300 or above should supplement the language major. A minor consists of twenty-four hours of the language exclusive of 101, 102, and 103.

A student in education who is majoring or minoring in a foreign language must take a course in advanced conversation (220-4), a course in advanced composition (French 351 or 353, German 304, Spanish 351), and 486, Materials and Methods for Teaching Foreign Languages.

Students taking work in any 101, 102, 103 language series should note that 101 and 102 will not be counted as electives toward graduation unless 103 is also completed.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students.

General Foreign Language Courses

399-2 to 6. READINGS. For foreign language majors only. Divisional con-

sent required. No more than four hours may be taken in any one quarter.

435-4 to 8. WORKSHOP IN ELEMENTARY SCHOOL FOREIGN LANGUAGE INSTRUCTION. Designed to assist elementary school teachers in integrating foreign languages into their teaching program as well as to encourage high school teachers to introduce or supervise foreign languages at the elementary level. Prerequisite: basic language credit. To count as foreign languages or education.

French Courses

- 101-4, 102-4, 103-4. ELEMENTARY FRENCH. Reading, grammar, conversation, and oral drill. 101 open to students who have no previous work in French. Prerequisite for 102: 101 or one year of high school French.
- 151-3, 152-3, 153-3. INTERMEDIATE COURSE. Grammar; composition; oral practice; rapid reading of modern authors. Prerequisite: 103 or two years of high school French.
- 220-2 to 6. FRENCH CONVERSATION. Conversation based largely on topics either of current or cultural interest. Prerequisite: 103.
- 301-3. THE FRENCH NOVEL OF THE EIGHTEENTH AND NINETEENTH CENTURIES. Lectures, collateral reading, and reports. Prerequisite: 153.
- 302-3. SEVENTEENTH- AND EIGHTEENTH-CENTURY DRAMA. Intensive study of Corneille, Racine, Molière, Lesage, Voltaire, Marivaux, and Beaumarchais. Outside reading of minor dramatics. Prerequisite: 301 or consent of instructor.
- 303-3. FRENCH LYRIC POETRY. French versification; Romantic, Parnassian, and Symbolist schools; contemporary poets. Prerequisite: 302 or consent of instructor.
- 304-3. FRENCH CONTEMPORARY NOVEL. Study of the novel from 1889 to the present, with emphasis on the symbolist, regional, psychological, and sociological novels. Detailed study of Proust or Gide.
- 305-3. FRENCH CONTEMPORARY DRAMA. Study of French Drama from Dumas *fils* to the present, with emphasis on the *pièce à thèse*, the *théâtre libre*, symbolist drama, and the drama of modern social problems.
- 311-4, 312-4, 313-4. SURVEY OF FRENCH LITERATURE. A study of the important currents of French literature from the beginning to the present time. Prerequisite: 153.
- 340-2. FRENCH LITERATURE OF THE SIXTEENTH CENTURY. Rabelais, Montaigne, the memoir writers, Marot, The Pleiade, and d'Aubigny.
- 351-4. ADVANCED COMPOSITION. Rapid grammar review, study of idiomatic construction; weekly themes. Course conducted in French.
- 353-4. ADVANCED COMPOSITION AND CONVERSATION. Oral and written composition of a practical nature for advanced students; intensive study of idiomatic expression and current usage.

German Courses

- 101-4, 102-4, 103-4. ELEMENTARY GERMAN. 101 open to students who have no previous work in German. 102 open to those who have had 101 or one year of high school German.

- 151-3, 152-3, 153-3. INTERMEDIATE COURSE. Grammar review and expansion; reading in modern prose; conversation and composition. Prerequisite: 103 or two years of high school German.
- 220-2 to 6. ADVANCED GERMAN CONVERSATION. Conversation based on topics of current interest; extensive use of German newspapers, periodicals, and records. Prerequisite: consent of instructor.
- 251-4. SCIENTIFIC GERMAN. Study of vocabulary and sentence construction as commonly found in German scientific writings. Prerequisite: one year of college German or equivalent.
- 301-4, 302-4. SURVEY OF GERMAN LITERATURE. The historical development of German literature; lectures, reading of representative authors.
- 303-4. GERMAN "NOVELLE" IN THE NINETEENTH AND TWENTIETH CENTURIES. A study of representative works after 1800, with emphasis on the literary movements of that time.
- 304-5. KULTURGESCHICHTLICHE AUFSATZE UND SPRECHUEBUNGEN. Advanced composition and conversation based on the history of German civilization. Required for prospective teachers of German.
- 311-4, 312-4. INTRODUCTION TO GERMAN CLASSICAL LITERATURE. Lessing, Goethe, Schiller. Reading and discussion of representative works.
- 313-4. GERMAN DRAMA IN THE NINETEENTH CENTURY. Reading and discussion of representative works.
- 401-2. GOETHE'S *FAUST*, PART I. The Faust legend and early Faust books and plays; the genesis of Goethe's Faust; reading of Part I.
- 402-2. GOETHE'S *FAUST*, PART II. Reading of Part II; study of Goethe's *Weltanschauung*.
- 403-3. GERMAN BALLADS AND LYRICS. A selective study of the foremost examples of German balladry and lyric poetry.

Latin Courses

- 151-4. INTERMEDIATE COURSE.
- 152-4. CICERO'S ESSAYS.
- 153-4. LIVY.

Russian Courses

- 101-4, 102-4, 103-4. ELEMENTARY RUSSIAN. Pronunciation; reading of elementary texts, oral practice; composition.
- 151-3, 152-3, 153-3. INTERMEDIATE COURSE. Reading of classical and modern narrative prose; oral practice and sight reading; advanced composition. Prerequisite: 103.

Spanish Courses

- 101-4, 102-4, 103-4. ELEMENTARY SPANISH. 101 open to students who have no previous work in Spanish. Prerequisite for 102: 101 or one year of high school Spanish.
- 151-3, 152-3, 153-3. INTERMEDIATE COURSE. Grammar review, composition, oral practice, rapid reading of modern authors. Prerequisite: 103 or two years of high school Spanish.

- 220-2 to 6. SPANISH CONVERSATION. Conversation based on topics either of current or cultural interest. Prerequisite: 103.
- 301-3. SPANISH NOVEL OF THE NINETEENTH AND TWENTIETH CENTURIES. Study of representative novels and authors from the Regionalists to the present time. Prerequisite: 153.
- 302-3. SPANISH DRAMA OF THE EIGHTEENTH AND NINETEENTH CENTURIES. Reading of selected plays of the chief dramatists from Moratin to the generation of 1898. Prerequisite: 301 or consent of instructor.
- 311, 312, 313-4. SURVEY OF SPANISH LITERATURE. A survey, continuing down to the present day. Lectures and reading of representative authors. Prerequisite: 153.
- 315-3. ARTE Y CULTURA. Conducted in Spanish. Informal class discussions of reports of students on present-day topics relating to the life and interests of Latin America and Spain; extensive use of films. Prerequisite: 220 or consent of instructor.
- 351-3. ADVANCED COMPOSITION. Daily themes based on Spanish models, with free composition once a week. Class discussions.
- 360-8. STUDY-TOUR OF MEXICO. Two weeks of lectures and intensive conversational drill on campus; four weeks in Mexico. Series of lectures by Mexican teachers during residence in Mexico City and on excursions in the country. Final week on campus for completion of individual projects and reports. Prerequisite: advanced standing in Spanish.
- 415-3. SPANISH PHONETICS. Analysis of the sounds of Spanish, their manner of production, and special drill in connected passages of prose and poetry.

PHILOSOPHY

The four-hour requirement in either philosophy or psychology for the Bachelor of Arts degree may be satisfied by taking the two 100-level courses or any single 200- or 300-level course with the exception of 355. Prerequisites apply only where specifically stated.

The minor consists of 24 hours, of which no more than 4 may be in 100-level courses. Minors are required to include the history of philosophy sequence (381, 382, 383) and at least 4 hours in logic or philosophy of science (120, 121, 305, or 324).

COURSE DESCRIPTIONS

Courses on the 300 level are for juniors and seniors only, except where consent is granted by the instructor.

- 120-2. PRACTICAL LOGIC I. Study and practice in elementary semantics, language analysis, and deduction. Except for students in associate degree program in business, credit is given only if 121 has been completed.

- 121-2. PRACTICAL LOGIC II. Study and practice in deduction, induction, and the scientific method. Prerequisite: 120.
- 200-4. TYPES OF PHILOSOPHY: AN INTRODUCTION. Survey of the traditional branches and problems of philosophy, such as religion, metaphysics, epistemology, ethics, political theory, aesthetics, and history.
- 240-4. ETHICS. Study of significant ethical theories concerned with such problems as the nature of right and wrong, individual and social values.
- 300-4. ELEMENTARY METAPHYSICS. Presentation of answers to the most general problems of existence. An attempt to unify all scientific approaches to reality through the laying down of common principles.
- 301-4. PHILOSOPHY OF RELIGION. An analysis of problems in the psychology, metaphysics, and social effects of religion. Among topics discussed are the nature of mystical experience, the existence of God, and problems of suffering, prayer, and immortality.
- 302-4. WORLD RELIGIONS. An historical and comparative study of the principal religions of the world. Particular attention is given to such non-Christian faiths as Hinduism, Buddhism, and Islam.
- 305-4. PHILOSOPHY OF SCIENCE. A nontechnical discussion of philosophic problems as they emerge from the various sciences, with readings from works addressed to the lay public.
- 324-4. SYMBOLIC LOGIC. Use of symbols as tools for analysis and deduction. Study of truth tables, Boolean Expansions, propositional calculus and quantifiers, logic of relations, and their functions in logistic systems.
- 342-4. SOCIAL AND POLITICAL THEORY. Philosophical analysis of social values and their expression in governmental organization.
- 355-3. PHILOSOPHY OF EDUCATION. Survey of theories of education and their relationships to educational policies and practices, as elucidated by the great teachers. Satisfies the education requirement, Education 355, but does not satisfy the philosophy-psychology requirement for the Bachelor of Arts degree.
- 360-4. PHILOSOPHY OF ART. The significance of art as a human activity, its nature and standards as seen in the problems of criticism, and the relation of art to other forms of knowledge.
- 381-4. GREEK AND EARLY CHRISTIAN PHILOSOPHY. Presocratics, Plato, Aristotle, early Christians, and others.
- 382-4. MEDIEVAL AND EARLY MODERN PHILOSOPHY. Problems of medieval philosophy and their restatement in the seventeenth and eighteenth centuries. Aquinas, Descartes, Locke, and others.
- 383-4. RECENT PHILOSOPHY. Kant, Hegel, Schopenhauer, Mill, Bergson, Dewey, Russell, and others.
- 386-4. AMERICAN PHILOSOPHY. A survey of American philosophic thought from colonial days to the present, with emphasis on such recent thinkers as Peirce, James, Royce, Dewey, and Santayana. Prerequisites: 382, 383.
- 484-4. ANCIENT AND MEDIEVAL POLITICAL THEORIES. (Same as Government 484.) A study of outstanding political theories of the ancient and medieval periods, including theories of Aristotle, Plato, Cicero, St. Augustine, and Thomas Aquinas.
- 485-4. RENAISSANCE AND RATIONALIST POLITICAL THEORIES. A

study of the important political theories from the Renaissance to the end of the eighteenth century, including the theories of Machiavelli, Hobbes, Rousseau, Locke and Burke.

486-4. CONTEMPORARY POLITICAL THEORIES.

487-4. AMERICAN POLITICAL IDEAS. (Same as Government 487.) An historical study of the political ideas of leading American statesmen and publicists, and their resulting influence upon our government system.

SCIENCE AND TECHNOLOGY DIVISION

*Applied Science and Pre-engineering; Botany; Chemistry;
Mathematics; Physics and Astronomy; Zoology and Physiology*

The Science and Technology Division contributes to the general education of all students by offering basic courses in mathematics and the physical and life sciences. The division provides a basic program in applied science and pre-engineering. For more advanced students the division seeks to develop an understanding of methods and disciplines that will help equip the student to make a living in areas embracing nature, technology, and industrial processes.

In addition to the general degree requirements, students in the Science and Technology Division must have the following:

- 1. Four hours of philosophy or psychology.
- 2. Reading knowledge of a foreign language. This ordinarily requires nine hours of university study or its equivalent.
- 3. Proficiency in English as demonstrated by an examination at the end of the junior year.

The Science and Technology Division offers curricula leading to the Bachelor of Arts degree and the Bachelor of Science in Education degree.

Professor Kermit G. Clemans, Ph.D. (Oregon), Head	1959
Professor William C. Shaw, Ph.D. (Iowa State)	1959
Professor Eric A. Sturley, Ed.D. (Columbia)	1958
Associate Professor Marinus P. Bardolph, Ph.D. (Iowa)	1957
Associate Professor Myron C. Bishop, M.A. (Ohio State)	1958
Associate Professor Harry D. Brown, Ph.D. (Columbia)	1961
Associate Professor Laurence R. McAneny, Ph.D. (Kansas)	1957
Associate Professor William J. Probst, Ph.D. (Iowa)	1958
Associate Professor Donald Plotte Squier, Ph.D. (Stanford)	1961
Assistant Professor George R. Arnold, M.S. (Illinois)	1953

Assistant Professor Ralph William Axtell, Ph.D. (Texas)	1960
Assistant Professor William C. Bennewitz, Ph.D. (Illinois)	1960
Assistant Professor Harold E. Broadbooks, Ph.D. (Michigan)	1957
Assistant Professor Joseph S. Davis, Ph.D. (Iowa)	1959
Assistant Professor Ray Gwillim, M.S. (Illinois)	1957
Assistant Professor Donal G. Myer, Ph.D. (Ohio State)	1958
Assistant Professor Clellie Oursler, Ph.D. (Illinois Inst. of Tech.)	1959
Assistant Professor Irwin H. Parrill, Ph.D. (Iowa)	1958
Assistant Professor David G. Rands, Ph.D. (Iowa)	1959
Assistant Professor Lloyd Kenneth Williams, Ph.D. (California)	1961
Assistant Professor Jesse Edmund White, Ph.D. (Indiana)	1959
Instructor Emery R. Casstevens, B.S.E.E. (U.S. Naval Academy)	1959
Instructor Florence A. Fanning, M.A. (Illinois)	1957
Instructor Donald Q. Harris, M.A. (Missouri)	1958
Instructor Lyman S. Holden, M.A. (Ohio State)	1958
Instructor Paul H. Phillips, M.S. (Southern Illinois)	1959
Instructor Frederick W. Zurheide, M.S. (Southern Illinois)	1958
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Lecturer Dale F. Blount, B.S. (Rockhurst)	1960
Lecturer Robert Dale Stallard, M.S. (Arkansas)	1961

APPLIED SCIENCE AND PRE-ENGINEERING

At the present time, courses in applied science and pre-engineering on the Edwardsville campuses are limited to minimum requirements for a pre-engineering program. No major or minor program is available in this area.

On the Carbondale campus the Department of Applied Science (embracing fields of solid and fluid mechanics, civil architecture, and electricity) offers through the School of Technology a complete course of study leading to the Bachelor of Science degree. The first two years follow the requirements of leading engineering schools, and the third and fourth years provide a program in applied science of a general nature. Rapid advances in technology make it desirable for a student to obtain such a broad background before specialization. The degree offered is comparable to a general engineering degree.

In addition to the general degree requirements, required courses constituting a major in applied science on the Carbondale campus are Applied Science 000, 101, 205, 206, 260, 261, 262, 263, 300, 301, 302, 311,

312, 313, 315, 316, 318, 320, 321, 331, 332, 333, 334, 335, 336, 340, 342, 343, 344, 346, 347, 361, 363; Industrial Education 227; Mathematics 113, 251, 252, 253, 305, 306; Chemistry 111, 112, 113; Physics 211, 212, 213; Economics 205; Speech 101; History 202; Government 101, Sociology 101.

Applied science courses available at the Edwardsville campuses are as follows: 101, 205, 206, 260, 261, 262, 263, 264, 300, 301, and 302.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students.

- 101-3. ENGINEERING DRAWING I. Orthographic projection, sections and conventions, dimensioning, auxiliary views, freehand lettering and sketching, and use of instruments.
- 205-3. ENGINEERING DRAWING II. A continuation of 101. Auxiliary views, threads, and fasteners, dimensioning, working drawings, intersections and developments, and charts and graphs. Prerequisite: 101.
- 206-4. DESCRIPTIVE GEOMETRY. Graphical solution of problems involving the understanding of the space relationships of points, lines, and planes; intersections and developments. Prerequisites: 101, Mathematics 112.
- 260-3. ANALYTICAL MECHANICS (STATICS). Resultants of force systems, algebraic and graphical conditions of equilibrium of force systems; analysis of forces acting on members of trusses, forces due to friction; centroids. Prerequisites: registration in Mathematics 251 and Physics 211.
- 261-3. ANALYTICAL MECHANICS (DYNAMICS I). Displacement, velocity, and acceleration of a particle; translation, rotation; plane motion. (Kinematics). Prerequisite: 260.
- 262-3. ANALYTICAL MECHANICS (DYNAMICS II). Solutions using the principles of force, mass and acceleration, work and energy, and impulse and momentum. (Kinetics). Prerequisite: 261.
- 263-4. SURVEYING I. Use and care of surveying instruments. Fundamental principles of surveying, computations, land surveying, topographic surveying. Two hours lecture, six hours laboratory. Prerequisites: 101, Mathematics 112 or equivalent.
- 264-4. SURVEYING II. Topographic surveying, field astronomy, route surveying, introduction to photogrammetry. Two hours lecture, six hours laboratory. Prerequisite: 263.
- 300-3. THERMODYNAMICS I. The study of fundamental energy concepts and the laws of thermodynamics, availability of energy, properties of gases, vapors and gas-vapor mixtures, flow and non-flow processes. Prerequisites: Mathematics 253, Physics 213.
- 301-3. THERMODYNAMICS II. Engine cycles and applications to internal combustion engines, gas turbines, steam turbines, jet devices, air compressors, and air engines. Combustion, refrigeration and air conditioning. Heat transfer principles. Prerequisite: 300.
- 302-3. HEAT TRANSFER. Dimensional analysis and its application to the

theory of heat transfer. Mathematical and graphical methods of analyzing problems in conduction, convection, and radiation. Particular attention to the applications of heat transfer principles used in various processes. Prerequisite: 301.

BOTANY

In addition to the general degree and Science and Technology Division requirements, a major in botany includes the following requirements: minimum of nine courses including 101, 202, 203, 310, and 320; one year of chemistry; and one year of either French or German. One year of physics is suggested. Prospective majors are urged to consult with a departmental counselor.

Required courses constituting a minor in botany: minimum of five courses including 101, 202, and 203.

Students in the Education Division who major or minor in botany must meet the same requirements as those listed for majors and minors in the Science and Technology Division.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students.

- 101-5. GENERAL BOTANY. An introductory study of the morphology, anatomy, and physiology of the seed plants including vegetative and sexual reproduction. Laboratory and field studies.
- 131-5. FIELD BIOLOGY. A course in methods of identification of various plants and animals and location of source material suitable for teaching nature study. Primarily for those planning to teach in primary and rural schools. Five Saturday field trips and laboratory studies. Cost to student about \$5.00.
- 202-5. GENERAL BOTANY. A study of representative plants of the major plant groups; classification; evolution of the plant kingdom. Laboratory, and one all-day (required) field trip. Student cost about \$5.00. Prerequisite: 101 or consent of instructor.
- 203-5. TAXONOMY OF LOCAL SEED PLANTS. A study of the principles of classification and the use of manuals, with reference to local ferns and flowering plants. Laboratory. Student cost about \$5.00. Prerequisite: 101 or 202.
- 310-5. PLANT ANATOMY. An introduction to cell division, development, and maturation of the structures of the vascular plants. Laboratory. Prerequisites: 101, 202.

- 315-3. PLANT GENETICS. A general course involving principles of evolution and heredity. Prerequisite: 101 or 202 or consent of instructor.
- 320-5. ELEMENTS OF PLANT PHYSIOLOGY. A study of the functions of plants and their relation to the various organs. Laboratory. Prerequisites: 101, 202.
- 321-3. ELEMENTARY BOTANICAL MICROTECHNIQUE. Methods of preservation and preparation of plant materials for examination by the light microscope. Laboratory. Prerequisite: consent of instructor.
- 350-4. PLANTS IN RELATION TO MAN. A study of the basic relationships of plants to man; the history, geography, crop ecology, production, consumption, and uses of plants and plant products of economic importance.
- 390-2 to 4. READINGS IN BOTANY. A course of individually assigned readings in classical botanical literature; both oral and written reports required; open only to undergraduate students. Prerequisites: major or minor in botany, consent of instructor.
- 391-2 to 5. SPECIAL PROBLEMS IN BOTANY. Individual laboratory or field work under supervised direction. Both written and oral discussions required; open only to undergraduate students. Prerequisite: major or minor in botany, consent of division.
- 403-3. HISTORY AND PRINCIPLES OF PLANT TAXONOMY. Important concepts in plant classification through the ages, and study of the International Code of Botanical Nomenclature. Consideration of the functions of genetics, evolution, morphogenesis, and ecology in taxonomy. Prerequisite: 203 or consent of instructor. May be repeated.
- 404-5. THE ALGAE. A study of the structure, development, and relationships of the algae. Laboratory. Prerequisites: 101, 202.
- 405-5. THE FUNGI. A study of the structure, development, and relationships of the fungi. Problems of economic and scientific interest stressed. Laboratory. Prerequisites: 101, 202.
- 411-5. THE BRYOPHYTES AND PTERIDOPHYTES. Structure, development, and relationships of the liverworts and mosses, and the ferns and fern allies. Laboratory. Prerequisites: 101 or 102, 202.

CHEMISTRY

For the Bachelor of Arts degree, a major in chemistry consists of a minimum of 48 hours. One year each of inorganic, analytical, organic, and physical chemistry provides the minimum requirement. Eight additional hours in Chemistry 432 and 446 are recommended. Also required are one year of calculus (mathematics minor), four quarters of physics, and a reading knowledge of German, Russian, or French. A student majoring in chemistry must maintain a 3.0 average in chemistry for admission to any chemistry courses beyond the freshman level.

A chemistry minor requires 27 hours including 111, 112, 113, 221 or 331, 341, and 342.

Chemistry majors in the Education Division must have a minimum of 36 hours including 111, 112, 113, 221, 331, 341, 342, 461, and 332, 343, or 462.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students.

- 101-4. GENERAL CHEMISTRY. A survey course for students who wish only to satisfy the general degree requirements in physical science. A terminal course for non-science majors. Composition and states of matter, valence, formulas and equations, compounds, elements, and related topics. Three lectures and four laboratory periods per week.
- 111-5. CHEMICAL PRINCIPLES AND INORGANIC CHEMISTRY. For chemistry majors and minors and all pre dental, pre-engineering, and premedical students. Atomic structure, valence, formulas and equations, gases, liquids, solids, and related topics. Four lectures and four laboratory periods per week.
- 112-5. CHEMICAL PRINCIPLES AND INORGANIC CHEMISTRY. Continuation of 111. Four lectures and four laboratory periods per week. Prerequisite: 111.
- 113-5. INORGANIC AND QUALITATIVE ANALYSIS. Continuation of 112. Theory of qualitative identification of the cations. Three lectures and six laboratory periods per week. Prerequisite: 112.
- 221-3. QUALITATIVE ANALYSIS. Theory and method of analytical detection of cations and anions. Simple water-soluble and acid-soluble salts and more complex mixtures analyzed in the laboratory. Two lectures and three laboratory periods per week. Prerequisites: 113, knowledge of logarithms.
- 331-3. INTRODUCTORY QUANTITATIVE ANALYSIS. Volumetric and gravimetric analysis, theory and methods. Two lectures and three laboratory periods per week. Prerequisite: 221.
- 332-4. QUANTITATIVE ANALYSIS. Continuation of 331. Two lectures and six laboratory periods per week. Prerequisite: 331.
- 341-4. ORGANIC CHEMISTRY. For chemistry majors. The hydrocarbons, alcohols, ethers, ketones, and acids in the aliphatic field. Three lectures and three laboratory periods per week. Prerequisite: 113.
- 342-5. ORGANIC CHEMISTRY. Amides, amines, complex acids, stereoisomerism, sugars, starches, proteins, and introduction to aromatic compounds. Three lectures and six laboratory periods per week. Prerequisite: 341.
- 343-5. ORGANIC CHEMISTRY. Aromatic compounds, polynuclear compounds and natural products, dyes, polymers, and heterocyclic compounds. Three lectures and six laboratory periods per week. Prerequisite: 342.
- 375-0 to 1. SENIOR SEMINAR. Open to majors in junior year for no credit. Required each quarter of senior year for majors.
- 411-3. INTERMEDIATE INORGANIC CHEMISTRY. Modern inorganic chem-

istry involving atomic structure, chemical bonds, complexes and chelate structures, and chemistry of familiar and less familiar elements. Three lectures per week. Prerequisite: 331.

412-4. INORGANIC PREPARATION.

432-4. INSTRUMENTAL ANALYTICAL TECHNIQUES. Theory and practice of common instrumental analytical measurements. Two lectures and six laboratory periods per week. Prerequisites: 331, 461.

446-4. QUALITATIVE ORGANIC CHEMISTRY. Separation and identification of organic compounds by classical methods. Two lectures and six laboratory periods per week. Prerequisite: 343.

460-5. THEORETICAL CHEMISTRY. A one-quarter course on the traditional aspects of physical chemistry without the requirement of calculus. 4 lecture and 3 laboratory hours per week. Prerequisites: 331, 306 or 343, and one year of physics or consent of instructor.

461-4. PHYSICAL CHEMISTRY. A study of gases, liquids, solids, solutions, homogeneous and heterogeneous equilibria. Three lectures and three laboratory periods per week. Prerequisites: 343, Mathematics 253, Physics 213.

462-4. PHYSICAL CHEMISTRY. Continuation of 461, including a study of chemical kinetics, electrical conductance, electromotive force, and electrolytic equilibrium. Three lectures and three laboratory periods per week. Prerequisite: 461.

463-4. PHYSICAL CHEMISTRY. Continuation of 462, including chemical thermodynamics, the quantum theory, photochemistry, nuclear structure, atomic structure, and molecular structure. Three lectures and three laboratory periods per week. Prerequisite: 462.

490-2. CHEMICAL LITERATURE. A description of the various sources of chemical information and the techniques for carrying out literature searches as well as an introduction to nomenclature. 2 lecture hours per week. Prerequisites: 306, 331, 343, reading knowledge of German or consent of instructor.

MATHEMATICS

Courses in mathematics are provided for three types of students: (a) those whose major interest is in working with mathematics, (b) those whose principal interest (such as social, biological, and physical science, engineering, or teaching) would require the use of mathematical concepts and methods, and (c) those who wish to broaden their cultural and educational outlook.

Students who have taken college preparatory mathematics in high school and who rank high on the mathematics placement examination should normally enroll in 113 as their first college course in mathematics. Students with less preparation may start with 112. Students with only one and one-half years of high school algebra and one year of plane geometry

should enroll in 111. Mathematics 106 is recommended for all students who have not had high school algebra or who rank low on the mathematics placement examination. No credit is allowed for 106 if it is taken after credit is earned in 111.

A student may take a major or minor in mathematics either in the Science and Technology Division or in the Education Division. The requirements in each case are listed below. Deviations from these requirements should have the approval of the mathematics department. A student majoring in mathematics may be required to attend special lectures or seminars during his senior year.

SUGGESTED CURRICULUM IN THE SCIENCE AND TECHNOLOGY DIVISION

In addition to the general degree and the Science and Technology Division requirements, majors in mathematics must meet the following requirements: 113, 251, 252, 253 (a student need not take any of these courses in which he can demonstrate competence); at least twenty-four hours in mathematics courses numbered 300 or above, including 320 and 321; Physics; 211, 212, 213. The selection of mathematics electives should be discussed with representatives of the department. Majors who are working to receive a teaching certificate are required to take 311, 320, 321, 335, and 336.

Requirements for a minor in mathematics are 113, 251, 252 or demonstrated competence, and at least three hours in mathematics courses beyond 252. For a teaching certificate in mathematics, 320 and seven hours in other courses beyond 252 are required.

SUGGESTED CURRICULUM IN EDUCATION

In addition to the general degree and Education Division requirements, majors in mathematics must meet the following requirements: 113, 251, 252 (A student need not take any of these courses in which he can demonstrate competence.); at least nineteen hours in mathematics courses beyond 252 including 311, 320, 321, 335, and 336; Physics 211; and a reading knowledge of a foreign language. Requirements for a minor in mathematics are 113, 251, 252 or demonstrated competence, and at least seven hours in mathematics courses beyond 252, including 320.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students.

Those on the 400 level are for both undergraduate and graduate students. Those on the 500 level are for graduate students only.

- 100-0. ELEMENTARY MATHEMATICS. Remedial and review work in elementary mathematics, including arithmetic and beginning algebra.
- 106-4. GENERAL MATHEMATICS I. An introduction to the real number system and selected topics from intermediate algebra including topics on business application. A student will not receive credit for 106 if he has had three semesters of algebra in high school or any other college mathematics. (Prerequisite: two semesters of high school mathematics, satisfactory score on placement test, or consent of the instructor.)
- 107a-4. GENERAL MATHEMATICS II. Modern ideas in mathematics. Prerequisite: 106 or intermediate algebra in high school.
- 107b-4. GENERAL MATHEMATICS II. Mathematics of finance. Prerequisite: 106 or intermediate algebra in high school.
- 111-5, 112-5. ELEMENTARY ANALYSIS I, II. Beginning sequence for mathematics majors and minors, pre-engineering students, etc., who can not qualify for 113. Includes topics selected from sets, logic, real number system, college algebra, and trigonometry. Prerequisite: three semesters of high school algebra and satisfactory score on placement test, or 106.
- 113-5. CALCULUS AND ANALYTIC GEOMETRY I. Beginning course for mathematics majors and minors, pre-engineering students, etc. Includes topics selected from analytic geometry, elementary differential calculus, and elementary integral calculus. Prerequisite: college preparatory mathematics in high school and high score on placement examination, or 112.
- 210-4. THE TEACHING OF ELEMENTARY MATHEMATICS. A professional treatment of the subject matter of arithmetic methods and a study of trends and current literature on the teaching of arithmetic. For elementary education majors only. Prerequisite: 106.
- 220-4. ELEMENTARY STATISTICS. A basic introduction to the simpler problems of statistical inference. Descriptive statistics, probability distributions, estimation of parameters and tests of significance, and regression and correlation. Prerequisite: 106 or consent of instructor.
- 251-4, 252-4, 253-4. CALCULUS AND ANALYTIC GEOMETRY II, III, IV. Continuation of 113. Includes differential and integral calculus, applications, introduction to solid analytic geometry, infinite series. Prerequisite: 113.
- 305-3, 306-3. DIFFERENTIAL EQUATIONS I, II. Classical methods of solving ordinary differential equations including Laplace transform techniques. Prerequisite: 253 or concurrent enrollment.
- 311-3. THE TEACHING OF SECONDARY MATHEMATICS. A study of the nature and objectives of the secondary mathematics curriculum. Particular attention is given to the means of introducing new ideas into the high school program. For students preparing to be certified teachers of secondary mathematics. Prerequisite: 320.
- 313-4. SOLID ANALYTIC GEOMETRY. Prerequisite: 113.
- 320-3, 321-3, 323-3. FUNDAMENTAL CONCEPTS OF ALGEBRA I, II, III. Introduction to abstract algebraic structures, including groups, rings, and fields. Attention is given to classical theory of numbers and polynomials.

The second course is devoted to a study of matrices, including an investigation of simultaneous linear systems. Prerequisite: 251.

- 324-3. VECTOR ANALYSIS. Prerequisite: 253.
- 335-3, 336-3. CONCEPTS OF GEOMETRY I, II. An elementary introduction to various geometric systems to acquaint the student with the interrelationship between geometries of current interest. Topics include axiom systems, introduction to synthetic projective and analytic projective geometry, projective definition of co-ordinate systems, affine geometry, Euclidean geometry, and non-Euclidean geometry. Prerequisite: 252 or consent of instructor.
- 395-2 to 8. READING IN MATHEMATICS. Supervised reading in selected subjects. Prerequisite: 12 hours of 300- or 400-level mathematics, "B" average in mathematics, and consent of division.
- 400-3. HISTORY OF MATHEMATICS.
- 408-3. BOUNDARY VALUE PROBLEMS. Characteristic functions, orthogonal functions, self-adjoint equations, and certain partial differential equations of physics. Prerequisite: 306.
- 410-3, 411-3, 412-3. STATISTICAL ANALYSIS I, II, III. An introduction to the principles and techniques of statistical inference. Elements of probability theory. Population, sample and sampling distributions. Estimation and testing hypotheses on means and variances. Analysis of enumeration data. Regression and correlation. Analysis of variance and covariance. Non-parametric Methods. Topics in experimental design. For students in fields using statistical methods. Will not normally be counted on a mathematics major.
- 415-4. NON-EUCLIDEAN GEOMETRIC PRINCIPLES. An introduction to hyperbolic and elliptic plane geometry and trigonometry. Emphasis given to the nature and significance of geometry and the historical background of non-Euclidean geometry. Prerequisite: 252.
- 425-3. THEORY OF NUMBERS. Topics in elementary number theory, including properties of integers and prime numbers, divisibility, Diophantine equations, and congruence of numbers. Prerequisite: 251.
- 430-4. PROJECTIVE GEOMETRY. Introduction to the fundamental concepts of projective geometry, including study of conics and polar systems of conics. Prerequisite: 251.
- 433-3. THEORY OF POINT SETS.
- 452-3, 453-3, 454-3. ADVANCED CALCULUS. A precise presentation of the fundamental concepts of analysis, *i.e.*, limits, continuity, differentiation, integration. Major topics include partial differentiation, vector analysis, Riemann-Stieltjes integrals, infinite series, and improper integrals. Prerequisite: 253.
- 455-4. PROGRAMMING FOR DIGITAL COMPUTERS. An intensive course in digital computer programming based upon the IBM 650 computer. Topics include computer organization and characteristics; machine language coding; flow charts, sub-routines; optimum and symbolic coding; compilers and interpretive systems. Prerequisite: consent of instructor.
- 460-4. MODERN GEOMETRY. Advanced topics in Euclidean geometry by the synthetic method. Topics including the nine-point circle, Simson line,

theorems of Ceva and Menelaus, coaxal circles, harmonic section, poles and polars, similitude, and inversion. Prerequisite: 20 hours of college mathematics.

475-3. NUMERICAL METHODS. An introduction to approximation methods including finite differences and interpolation; numerical differentiation and integration; curve fitting, numerical solution of algebraic, transcendental, and differential equations. Prerequisites: 305, or 253 and consent of instructor.

480-3, 481-3, 482-3. PROBABILITY AND STATISTICS. An introduction to probability theory and the mathematical methods used in obtaining procedures for various problems of statistical inference. Topics include the algebra of probabilities, discrete and continuous distributions, limit theorems, sampling distributions, principles of statistical estimation, and testing hypotheses. Prerequisite: 253.

Courses on the 500 level are for graduate students only.

501-3, 502-3, 503-3. REAL VARIABLES. A basic course in mathematical analysis. The real number system; fundamental theorems in limits and continuity; open, closed, compact, and connected sets in Euclidean and metric spaces; the Riemann and the Riemann-Stieltjes integrals and functions of bounded variation; infinite series; uniform continuity; uniform convergence of series and improper integrals; arcs and curves; implicit function theorem; multiple integrals. The third quarter presents the general theory of measure and integration from an abstract point of view. Additive classes of sets, Borel sets, measurability, measure and outer measure; integrable functions, convergence theorems; absolute continuity and the Radon-Nikodym theorem; Fubini's theorem. Prerequisite: 454.

520-1 to 4. MODERN ALGEBRA I. Intended to display some of the richness of algebra when other possible mathematical systems are considered in addition to the traditional one based upon ordinary systems of algebra. Uniqueness of factorization, rational numbers and fields, polynomials, complex numbers, and theory of permutation groups.

521-1 to 4. MODERN ALGEBRA II. A continuation of 520. Additional group theory, vector spaces, matrices, algebraic number fields.

PHYSICS AND ASTRONOMY

Undergraduate courses in physics may be taken as a major by students working toward the Bachelor of Arts degree and the Bachelor of Science in Education degree.

Courses constituting a major in physics for the Bachelor of Arts degree include 211, 212, 213, 301, 302, 303, 305, 306, 307, 314, and two of the following: 310, 405, 414; Mathematics through Mathematics 253 and three of the following: Mathematics 305, 306, 324, 408, 452, 453, 454; and Chem-

istry through Chemistry 113. German 101, 102, 103, and additional physics, mathematics, and chemistry courses are recommended.

Courses constituting a major in physics for the Bachelor of Science in Education degree include 211, 212, 213, 301, 302, and four additional physics courses in the 300 or 400 series.

A minor in physics includes 211, 212, 213 (or 101, 102, 103 with consent of the physics faculty) 301, 302, and one additional physics course in the 300 or 400 series.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 level are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students.

- 101-4, 102-4. SURVEY OF PHYSICS. Mechanics, waves, sound, and light in 101; heat, electricity, atoms, and nuclei in 102. To satisfy science requirements of students whose chief interests are not in physical science. Includes laboratory in addition to lecture-demonstrations. Pre-engineering, mathematics, and physical science majors should take 211, 212, and 213.
- 103-4. PROBLEMS IN ELEMENTARY PHYSICS. A quantitative amplification of the principles of physics. The course is designed to fulfill, along with 101, 102, the pre-medical requirements. Prerequisite: 101, 102, Mathematics 112.
- 211-5. UNIVERSITY PHYSICS (Mechanics and Sound) Physics 211, 212, and 213 together constitute a thorough course in basic physics for science, pre-engineering, and mathematics majors. Includes laboratory. Prerequisite: Mathematics 113 or concurrent enrollment.
- 212-5. UNIVERSITY PHYSICS. (Electricity and Magnetism) Continuation of 211. Prerequisites: 211; Mathematics 151 or concurrent enrollment.
- 213-5. UNIVERSITY PHYSICS. (Heat and Light) Continuation of 211 and 212. Prerequisites: 211; Mathematics 252 or concurrent enrollment.
- 301-4, 302-4. MECHANICS. Intermediate mechanics using vector notation. Emphasis on kinematics and particle dynamics. Prerequisites: 211; Mathematics 253 or concurrent enrollment.
- 303-5. HEAT. Temperature measurement, specific heats, phase changes and other heat phenomena, the laws of thermodynamics, and an introduction to kinetic theory and statistical mechanics.
- 305-4, 306-4. INTRODUCTION TO ELECTRIC THEORY I, II. Electrostatic fields in vacuum and in matter, electromagnetic fields and induction, linear circuits with direct and alternating currents, and electromagnetic radiation. Prerequisites: 212, Mathematics 253.
- 307-2. ELECTRIC MEASUREMENTS. A laboratory course illustrating basic electrical and magnetic properties and emphasizing precision in their measurement. Prerequisite: 306 or concurrent enrollment.

- 310-5. **LIGHT.** Light propagation and optical instruments; reflection, refraction, interference, diffraction, and polarization of light. Prerequisite: 213.
- 314-5. **ATOMIC PHYSICS.** Atomic structure, thermionics, the photoelectric effect, gas discharges, optical spectra, x-rays, mass spectra, and introduction to nuclear physics. Prerequisites: 212, 213; Mathematics 253 or concurrent enrollment.
- 316-5. **HISTORY OF PHYSICS.** The historical development of physical concepts and theories, including some contemporary physical research. Designed particularly for students planning to teach. Recommended for juniors and seniors in lieu of 101 or 102.
- 405-5. **ELECTRONICS.** Alternating current theory, including circuit analysis by the use of complex numbers; various types of electronic tubes and electronic devices, and their use in circuits which are frequently encountered in experimental physics, including power supplies, amplifiers, oscillators, electronic meters, relays, and scalars. Prerequisites: 305, 306.
- 414-5. **NUCLEAR PHYSICS.** Theories of nuclear structure, nuclear reactions, radiation and radioactivity, medical and research applications as tracers and in dating, nuclear energy with emphasis on peaceful applications. Prerequisite: 212, 213.
- 420-2 to 5. **SPECIAL PROJECTS I.** Each student is assigned a definite investigative topic. Adapted to advanced undergraduate students. Prerequisites: 301, 305, 306.
- 440-3. **INTRODUCTION TO QUANTUM MECHANICS.** A survey of quantum mechanics featuring the methods of Schrodinger and Heisenberg. Applications to fundamental problems such as the harmonic oscillator and the hydrogen atom. Prerequisite: consent of instructor.
- 450-5. **INTRODUCTION TO SOLID STATE PHYSICS.**

Courses on the 500 level are for graduate students only.

- 501-5. **METHODS OF THEORETICAL PHYSICS I.** A survey of classical theoretical physics, with emphasis on advanced dynamics. Vector analysis used throughout. Prerequisites: 301, 302, 305, 306, Mathematics 305, 306.
- 502-5. **METHODS OF THEORETICAL PHYSICS II.** A continuation of 501, with emphasis on hydromatics, thermodynamics, statistical mechanics, and kinetic theory of gases. Prerequisite: 501.
- 503-5. **METHODS OF THEORETICAL PHYSICS III.** A continuation of 502, with emphasis on electrodynamics including radiation theory. Prerequisite: 502.

Astronomy Courses

- 201-4. **INTRODUCTION TO ASTRONOMY.** Uses of astronomy, reference systems, time, instruments, solar and galactic systems and satellites. Includes evening observations in addition to lecture-demonstrations.

ZOOLOGY AND PHYSIOLOGY

A minimum of forty-eight hours of zoology is required for a major.

Required courses constituting a major in zoology are 100, 102, 103, 202, 401, and any two of the following courses: 300, 303, 306, 310, 313, 461. However, teachers in in-service training may substitute 402 or 403 in lieu of one of the latter courses.

A minimum of twenty-four hours of zoology is required for a minor, including Zoology 100, 102, 103 and at least nine additional hours. At least one course above the 100 level must have a laboratory.

Reading knowledge or three quarters of a foreign language (preferably French, German, or Russian) is required of all majors; six quarters of one such language are recommended.

Zoology majors are required to have three quarters of chemistry and two quarters of physics.

Recommendations for majors in zoology include organic chemistry, three quarters of physics, three quarters of botany; two quarters of mathematics, one quarter of physiology, and one quarter of microbiology.

Zoology majors or minors who expect to enter such professions as teaching, fish and wildlife management, dentistry, medicine, veterinary medicine, or allied fields should consult with the division concerning their programs.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level may be taken by undergraduate and graduate students.

Zoology Courses

- 100-5. PRINCIPLES OF ANIMAL BIOLOGY. Introduction to the major principles underlying the study of zoology. Lectures on principles of animal classification, organization of matter into cells, tissues, organs, and organ systems, heredity, ecology, animal distribution, organic evolution, economic zoology, and conservation. Laboratory work designed to illustrate the above principles. Satisfies general degree requirement in zoology.
- 102-5. GENERAL INVERTEBRATE ZOOLOGY. Studies of typical representatives of the various kinds of invertebrate animals. Relationships, structure, and natural history are emphasized. Prerequisite: 100.
- 103-5. GENERAL VERTEBRATE ZOOLOGY. Studies of fishes, amphibians, reptiles, birds, and mammals, with special emphasis on the amphibious type. Evolutionary development, structure, and natural history are emphasized. Prerequisite: 100.
- 202-5. COMPARATIVE ANATOMY. Comparative studies of the organ systems of vertebrate animals, with emphasis on the phylogeny and evolution of these organs. Prerequisites: 102, 103.

- 300-5. VERTEBRATE EMBRYOLOGY. Development of the individual and the relationship of this development to vertebrate phylogeny; chicken and pig used as types. Prerequisite: 202.
- 303-4. GENERAL ORNITHOLOGY. Recognition of birds and study of their songs, nests, migratory habits, and other behavior. Field trips cost ten to twenty-five dollars per student. Prerequisite: 100 or equivalent.
- 306-4. ENTOMOLOGY. Principles of the structure, classification, and life histories of insects. Prerequisite: 102.
- 310-5. ANIMAL ECOLOGY. Habitats, relations, formations, and associations of animals. Field trips cost ten to twenty-five dollars per student. Prerequisites: 102, 103.
- 313-3. EVOLUTION. Principles and processes of the evolution of living things, including the development of present-day man. Prerequisite: one year of biology.
- 314-4. HEREDITY AND EUGENICS. Principles of heredity in relation to man. Prerequisite: 100 or Botany 101.
- 321-5. HISTORICAL TECHNIQUES IN ZOOLOGY. Prerequisite: one year of biological sciences or approval of instructor.
- 322-2 to 5. PROBLEMS IN ZOOLOGY. Research on zoological problems. Prerequisites: 4.25 average, senior standing, and consent of the division. (Credit does not satisfy any part of the requirements for a minor in zoology.)
- 335-5. FIELD ZOOLOGY.
- 382A-1/2. ZOOLOGY SEMINAR FOR SENIORS.
- 382B-1/2. ZOOLOGY SEMINAR FOR SENIORS.
- 382C-1/2. ZOOLOGY SEMINAR FOR SENIORS.
- 401-5. GENETICS. (Same as Microbiology 402.) Principles of inheritance including genetic mechanisms, mutation, and selection. Prerequisite: twelve hours of biological science.
- 402-4. NATURAL HISTORY OF INVERTEBRATE ANIMALS. Observation, identification, and life histories of common invertebrate animals. A course designed for teachers. Prerequisites: 100, 102.
- 403-4. NATURAL HISTORY OF VERTEBRATE ANIMALS. Observation, identification, and life histories of common vertebrate animals. Designed for teachers. Prerequisites: 100, 103.
- 407 (500)-5. PARASITOLOGY. Collection of parasitic animals, identification, morphology, life history, and control measures. Prerequisite: 102.
- 461-4. MAMMALOLOGY. Taxonomic groups, identification, and natural history of mammals. Prerequisite: 103.
- 480-3. ZOOGEOGRAPHY.

Physiology Courses

- 209-5. INTRODUCTION TO PHYSIOLOGY. A survey of the functions of the human body. Designed for students in various fields desiring a basic but comprehensive knowledge of human physiology. Three lectures and two laboratory periods per week.
- 300-4. HUMAN ANATOMY. Lectures and demonstrations of bones, joints, muscles, and nerves. Designed for majors in physical education.

SOCIAL SCIENCES DIVISION

Geography; Government; History; Sociology and Anthropology

The Social Sciences Division offers courses designed to enable the student to achieve an understanding and appreciation of civilization viewed in historical perspective, and thereby equip him for participation in the duties and responsibilities of citizenship. His studies give him insights and understandings which enable him to live more constructively with others in his family, community, and nation and provide him with a better understanding of social organizations, technologies, and the nature and variety of spiritual beliefs.

Professor Seymour Z. Mann, Ph.D. (Chicago)	1960
Associate Professor Richard C. Baker, Ph.D. (Columbia)	1957
Associate Professor Hyman H. Frankel, Ph.D. (Illinois)	1957
Associate Professor Kurt Glaser, Ph.D. (Harvard)	1959
Associate Professor Melvin E. Kazeck, Ed.D. (Columbia)	1958
Associate Professor S. D. Lovell, Ph.D. (Ohio State)	1957
Associate Professor Allan James McCurry, Ph.D. (Cornell)	1960
Associate Professor Patrick W. Riddleberger, Ph.D. (California)	1960
Associate Professor Herbert H. Rosenthal, Ph.D. (Harvard), Head	1955
Associate Professor Elliott M. Rudwick, Ph.D. (Pennsylvania)	1960
Associate Professor Donald L. Taylor, Ph.D. (Duke)	1959
Associate Professor Jack B. Thomas, Ph.D. (Indiana)	1958
Assistant Professor Robert F. Erickson, Ph.D. (Illinois)	1959
Assistant Professor James Martin Haas, Ph.D. (Illinois)	1961
Assistant Professor Stanley B. Kimball, M.A. (Denver)	1959
Assistant Professor Mary Megee, Ph.D. (Chicago)	1959
Assistant Professor Gunter W. Remmling, Ph.D. (Berlin)	1958
Assistant Professor Virgil L. Seymour, M.A. (Southern Illinois)	1957
Assistant Professor Ernest L. Schusky, M.A. (Chicago)	1960
Assistant Professor John W. Snaden, Ph.D. (Michigan)	1959
Assistant Professor Philip E. Vogel, Ph.D. (Nebraska)	1959
Instructor Richard Edwin Guffy, M.S. (Northwestern)	1960
Instructor Clare Blanche Jarard, M.A. (Iowa)	1957
Instructor Eleanor Anne Schwab, M.A. (New York)	1961

Lecturer Carmen W. Harper, M.A. (Southern Illinois)	1960-62
Lecturer Noah Lucatz, M.A. (Glasgow)	1961-62
Lecturer Jane Ann Schuskey, M.A. (Chicago)	1961-62

GEOGRAPHY

In the field of geography, the student may work toward either a Bachelor of Science in Education degree or a Bachelor of Arts degree depending upon his objective:

1. Bachelor of Science in Education—for preparation to teach geography in the elementary or secondary schools, or (with further preparation) in the junior college; or as a part of preparation to teach either social science or physical science in the elementary or secondary schools.

2. Bachelor of Arts—for a thorough knowledge of geography, in preparation for civil service appointment as a geographer, or for demands of private organizations requiring the services of geographers, meteorologists, or cartographers.

For the Bachelor of Arts degree, the student majoring in geography needs to present a minor in another field. Forty-two hours of geography are required for a major; twenty-four hours are required for a minor.

For the Bachelor of Science in Education degree, forty-eight hours of geography are required for a major if the student offers only one minor; only forty-two hours are required for a major if he offers two minors. Twenty-four hours are required for a minor.

One year of foreign language is required of all geography majors.

Persons who expect to teach in elementary school are urged to take at least a minor in geography which must include 100 and 101.

Those expecting to teach high school commercial or economic geography with a minimum of preparation must have twelve hours of college geography. Students should meet this requirement by taking 100, 210 or 211, 324, and 405.

Those expecting to teach high school physical geography with a minimum preparation must have eighteen hours in college physical geography. Students should meet this requirement by taking 101, 212, 310, and any other physical geography subjects.

SUGGESTED CURRICULUM FOR THE BACHELOR OF ARTS DEGREE

In addition to the general degree requirements and the Social Sciences Division requirements, required courses constituting a major in geography

are 100, 101, 210, 212, 310, 312, 314. Additional courses recommended for a major in geography are 324, 416.

SUGGESTED CURRICULUM FOR THE BACHELOR OF SCIENCE IN EDUCATION DEGREE

In addition to the general degree requirements and the Education Division requirements, required courses constituting a major in geography are 100, 101, 210, 212, 310, 312, 314, 324. Additional courses recommended for a major in geography are 343, 416.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students.

- 100-5. CULTURAL GEOGRAPHY. A world survey course which stresses man's relationship to his physical environment. Designed to provide an understanding of the people of the world and their work as related to the land and its resources. Satisfies social studies requirement.
- 101-5. PHYSICAL GEOGRAPHY. A study of the earth's physical surface, the areal differences and relationships of its landforms, water resources, soils, natural vegetation, and economic minerals. World distribution patterns of physical elements, their relationships to each other, and their importance to man. Meets needs of prospective teachers of nature study and natural, social, and general science. Field trip and laboratory work.
- 210-4. ECONOMIC GEOGRAPHY. A study of economic production types or occupations, such as grazing, fishing, farming, lumbering, mining, manufacturing, and transportation.
- 211-5. ECONOMIC GEOGRAPHY. Designed to show the relationship between physical environment and the economic life of people. Emphasis on economic-geographic factors of world distribution of resources, methods of production, and transportation of important commodities of industry and commerce. Primarily for students majoring in business administration and economics.
- 212-3. MAP READING AND INTERPRETATION. Properties of maps and air photos, their uses and sources. Maps as means of expression in scientific investigation. Units on the use and interpretation of maps, map symbols, and map projections. Laboratory.
- 310-4. METEOROLOGY. Study of weather, and the factors and conditions influencing it, its importance to man. Emphasis placed on agriculture, aviation, business, industry, and everyday understanding of weather. Most recent findings in weather science studies. Of value to persons interested in weather bureau service. Prerequisite: 100 or consent of instructor.
- 311-4. GEOGRAPHY OF SOILS. The nature, source, and origin of soil material; soil development and soil use. Geographic distribution and significance of soil as an element of the environment. Prerequisites: 100, 101 or consent of instructor.

- 312-4. REGIONAL CLIMATOLOGY. Principles of climatology; physical bases for the differentiation of climatic types; description and interpretation of climatic regions. Prerequisite: 100 or consent of instructor.
- 313-3. GEOGRAPHY OF ILLINOIS. Acquaints the student with the regional concepts of our state, the distribution of climate, vegetation, soil, land-forms, and mineral resources; interrelates agriculture, manufacturing, industry, and population distribution, interpreted within a regional framework. Prerequisite: 100 or consent of instructor.
- 314-4. GEOGRAPHY OF ANGLO-AMERICA. A systematic regional treatment of North America, north of Mexico. An introduction to a regional study of geography. Prerequisite: 100 or consent of instructor.
- 315-4. GEOGRAPHY OF EUROPE. An intensive study of regions, with stress on their description, interpretation, and utilization. Emphasis on interdependence of political units. Prerequisite: 100 or consent of instructor.
- 316-4. GEOGRAPHY OF SOUTH AMERICA. A study of the regions and resources of the South American countries as they are related to national and international problems.
- 318-4. GEOGRAPHY OF ASIA. A study of the countries of Asia, except the Asiatic portion of the U.S.S.R., emphasizing the relationship between the problems of the population and the resource base.
- 319-4. HISTORICAL GEOGRAPHY OF THE UNITED STATES. Study of elements of the geographic environment that have been important in the discovery, exploration, settlement and the development of the United States.
- 321-2. GEOGRAPHY OF AUSTRALIA. A study of the only continent which lies far beyond the periphery of the land hemisphere; its unusual climatic and economic conditions; its importance in the British Empire; and its vital place in the economic and political life of the Pacific.
- 322-3. GEOGRAPHY OF THE PACIFIC. Description and analysis of the complex physical and cultural structure of the Pacific islands composing Melanesia, Micronesia, and Polynesia. Emphasis will be placed upon the strategic significance of the area.
- 323-3. GEOGRAPHY OF THE NEAR EAST. A regional approach to the study of the nations of southwest Asia and the Arab nations of Africa. Appraisal of the resources of these nations and the importance of these areas to the rest of the world.
- 324-4. RESTORATION AND CONSERVATION OF NATURAL RESOURCES. Survey of major resources of the United States with stress on problems of conservation and restoration. Emphasis on water, mineral, forest, grass, soil, wildlife, scenic, and recreational resources. Field trips.
- 343-4. TEACHING OF GEOGRAPHY. Presentation and evaluation of geography teaching methods. Geographic literature, illustrative materials, and teaching devices are emphasized.
- 402-4. THE SOVIET UNION. A study of the U.S.S.R. based on both a systematic and a regional approach. Appraisal of the natural-resource base of Russia as well as an estimate of her industrial and agricultural strength. Prerequisite: 100 or consent of instructor.
- 404-4. ADVANCED ECONOMIC GEOGRAPHY I (AGRICULTURAL). A functional study of the bases, interrelationships, and geographic distribu-

- tion of agricultural production. Prerequisites: 100, 210, or consent of instructor.
- 405-4. ADVANCED ECONOMIC GEOGRAPHY II (INDUSTRIAL). A functional study of the bases, interrelationships, and geographic distribution of industries. Prerequisites: 100, 210, or consent of instructor.
- 406-4. TRADE AND TRANSPORTATION. The pattern of modern transport networks and trade routes; the importance of trade routes; the importance of trade and transportation as geographic factors. Prerequisites: 100, 210, or consent of instructor.
- 411-4. URBAN GEOGRAPHY. The urban population: environment, development, and distribution; geographic factors related to the origin, structure, and functions of urban centers. Prerequisites: 100, 210, or consent of instructor.
- 413-3 to 4. GEOGRAPHY OF THE CARIBBEAN LANDS. A regional approach to the study of the lands bordering the Caribbean. Appraisal of the natural-resource base of the various countries. Prerequisite: 100 or consent of instructor.
- 416-4. CARTOGRAPHY. Instruction and practice in the basic techniques of map-making; consideration and solution of problems involved in the construction of maps; problems in map reproduction. Prerequisite: 100 or consent of instructor.
- 417-3. AIR PHOTO INTERPRETATION. Techniques in the use of air photos as source material for research in the physical and social sciences. Laboratory. Prerequisite: 212 or consent of instructor.
- 420-4. GEOGRAPHY OF AFRICA. A regional approach to the study of the continent. Patterns of climate, soils, minerals, vegetation, and relative location to be woven together with the agricultural, economic, and industrial features into the regional framework of Africa. Prerequisite: 100 or consent of instructor.
- 424-4. REGIONAL PROBLEMS IN CONSERVATION. The distribution, use, and interrelationship of the resources in the various resource management regions of the United States, the conservation techniques applied to them, and the problems of public policy in their effective management. Prerequisites: 100, 324, or equivalent.
- 430-4. PHYSIOGRAPHIC PROVINCES OF NORTH AMERICA. Designed to give the students an appreciation of the evolution of land forms in the physiographic provinces of North America; to explain the surface features in a landscape; and to interpret the human drama related thereto. Prerequisites: 100, 210, and advanced standing.
- 435-4. GEOGRAPHY OF LANDFORMS. The use of various geographic aids in the development of landform concepts. Descriptions of the more common landforms with special emphasis on the United States. Research paper required. Prerequisite: 101.
- 440-2 to 4. READINGS IN GEOGRAPHY. Supervised readings in selected subjects. Hours and credit to be arranged. Prerequisites: 100, 210, and advanced standing.
- 444-4. POLITICAL GEOGRAPHY. An examination of the world political pattern that is superimposed on the physical earth. Particular attention to world powers and critical areas.
- 450-3 to 15. TRAVEL STUDY COURSES. Designed chiefly for in-service

teachers and for others whose work needs enrichment through travel. Prior to departure from campus, intensive supervised study and/or readings relative to areas or countries to be visited. Written report due within six weeks after completion of study in the field. Not open for credit to graduate students in geography. Prerequisite: 100 or equivalent.

- 470-4. URBAN PLANNING. (Same as Government 470.) Basic problems of planning in the urban community. Includes the administrative and physical principles involved in the planning of urban land use. Emphasis on research techniques, design principles, and government instrumentalities in the planning process. Prerequisite: consent of instructor.

GOVERNMENT

An undergraduate major for a student working toward the Bachelor of Science in Education degree consists of thirty-six hours, and forty-two hours for a student working toward the Bachelor of Arts degree. Twenty-four hours are required for a minor. A major or minor is recommended for persons planning to teach civics or government courses, and for those planning to qualify for the study of law or for public service. Students majoring in government are urged to take as much work as possible in other social sciences. A year of foreign language is required of all government majors working toward the Bachelor of Arts degree. Government 190 is required of all majors and does not count toward the minimum number of hours required for a major.

The major should take a minimum of one course in each of the areas of specialization listed below. No student should take more than 20 hours in any area of specialization.

AREAS OF SPECIALIZATION

American Government and Politics 232, 330, 340, 380, 406, 415, 420, 435.

Public Law 305, 315, 495, 496.

Public Administration 360, 361, 461, 465, 470, 473.

International Affairs 243, 370, 371, 373, 390, 391, 453, 456, 457.

Political Theory 484, 485, 486, 487.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students. Those on the 500 level are for graduate students only.

- 190-5. AMERICAN GOVERNMENT. A general survey of national, state, and local governments. Includes the national and state constitutional principles as required by Illinois law.
- 232-4. STATE AND LOCAL GOVERNMENT. A survey of the structure and functions of American state and local governments. Prerequisite: 101, 190 or 231.
- 243-3. INTRODUCTION TO AMERICAN FOREIGN POLICY. The significance of foreign policy as related to American citizens. Prerequisite: 101, 190 or 231.
- 305-4. DEVELOPMENT OF THE AMERICAN CONSTITUTION. The evolution of the United States constitutional system. Recommended for pre-law students. Prerequisite: 101, 190 or 231.
- 315-3. ADMINISTRATION OF JUSTICE. The organization and work of the American judicial system. Recommended for pre-law students. Prerequisites: 101, 190 or 231.
- 321-1 to 6. READINGS IN GOVERNMENT. Consent of instructor required.
- 330-2. ILLINOIS GOVERNMENT. The development and functioning of government in Illinois. Prerequisite: 101, 190 or 231.
- 340-3. THE LEGISLATIVE PROCESS. A study of the principles, organization, and work of American legislative bodies. Prerequisite: 101, 190 or 231.
- 360-4. INTRODUCTION TO PUBLIC ADMINISTRATION. Nature of public administration in the United States, basic administrative practices, the peculiar governmental systems; major issues in public administration. Prerequisite: 101, 190 or 231.
- 361-3. SELECTED PROBLEMS IN PUBLIC ADMINISTRATION AND POLICY FORMULATION. Intensive examination of problem areas illustrating administrative and management practices in public service and demonstrating linkages between politics and administration in our political system. Prerequisite: 360.
- 370-4. INTERNATIONAL RELATIONS. A study of world politics—the causes of international conflict and the conditions of peace. Prerequisite: 101, 190 or 231.
- 371-4. PROBLEMS OF AMERICAN FOREIGN POLICY. An analysis of selected problems in the field of American foreign policy. Prerequisite: 101, 190 or 231.
- 373-3. INTERNATIONAL POLITICS OF EUROPE. National-state system in Europe; foreign politics of major states; nationalism as a source of conflict; Soviet expansionism; progress toward European security and unification. Prerequisite: 370.
- 380-4. POLITICAL PARTIES. The development and work of American political parties. Prerequisite: 101, 190 or 231.
- 390-5. PRINCIPLES OF COMPARATIVE AND FOREIGN GOVERNMENTS. A comparative study of the various political systems of European democracies and governmental systems derived therefrom. Prerequisite: 101, 190 or 231.
- 391-3. COMPARATIVE GOVERNMENT. A comparative study of the political systems of the Soviet Union, the West German Republic, Italy, and at least one other European state. Prerequisite: 101, 190 or 231.
- 406-4. AMERICAN CHIEF EXECUTIVE. President and governor. A study of

- the origin and background of the presidency and the governorship; qualifications, nomination and election, succession and removal, the organization of the executive branch and the powers and functions of the president and governor. Prerequisite: 190.
- 415-3. **POLITICAL BEHAVIOR.** An analysis of the nature of public opinion and methods of influencing political behavior. Major attention given to studying basic psychological attitudes and behavior. Prerequisite: 101, 190 or 231.
- 420-4. **PRESSURE GROUPS AND PROPAGANDA.** An analysis of interest groups and their techniques of political propaganda. Prerequisite: 101, 190 or 231.
- 435-4. **GOVERNMENT AND BUSINESS.** General survey of regulation of business by government; regulatory measures and procedures; regulation of labor and agriculture, public ownership; impact of pressure groups on government. Prerequisite: 101, 190 or 231.
- 453-3. **SOVIET GOVERNMENT AND POLITICS.** An intensive study and research exercise in the government and politics of the Soviet Union. Prerequisite: 390 or consent of instructor.
- 456-4. **GREAT BRITAIN AND THE BRITISH EMPIRE.** An intensive study and research exercise in the governments and politics of the British Commonwealth of Nations. Prerequisite: 390 or consent of instructor.
- 457-4. **GOVERNMENT AND POLITICS IN THE NEAR AND MIDDLE EAST.** Iran, Iraq, Syria, Lebanon, Egypt, Jordan, Saudi Arabia, etc. Prerequisite: 101 or 190 or 231.
- 461-4. **ORGANIZATIONAL THEORY AND PUBLIC ADMINISTRATION.** Examination of sociology of organizations, the significance of bureaucracy and large scale organizations, administrative theories and their application and relevance to public administration. Prerequisite: 360 or concurrent registration with 360.
- 465-3. **LOCAL GOVERNMENT AND PUBLIC ADMINISTRATION.** Problems and issues at local governmental level. Emphasizes administrative approaches, special problems in intergovernmental relationships, and the developing tasks related to urban expansion and growth. Prerequisite: 360.
- 470-4. **URBAN PLANNING.** (Same as Geography 470.) Basic problems of planning in the urban community. Includes the administrative and physical principles involved in the planning of urban land use. Emphasis on research techniques, design principles and governmental instrumentalities in the planning process. Prerequisite: consent of instructor.
- 473-3. **METROPOLITAN STUDIES AND RESEARCH.** Examination of the reorganization movement related to improvement and restructuring of government in metropolitan areas. Review and evaluation of special problems in research methodology. Prerequisite: 360 or consent of instructor.
- 484-4. **ANCIENT AND MEDIEVAL POLITICAL THEORIES.** (Same as Philosophy 484.) A study of outstanding political theories of the ancient and medieval periods, including theories of Aristotle, Plato, Cicero, St. Augustine, and Thomas Aquinas. May be counted as government or philosophy. Prerequisite: 6 hours of government.

- 485-4. RENAISSANCE AND RATIONALIST POLITICAL THEORIES. (Same as Philosophy 485.) A study of the important political theories from the Renaissance to the end of the Eighteenth Century, including the theories of Machiavelli, Hobbes, Rousseau, Locke, and Burke. May be counted as government or philosophy. Prerequisite: 6 hours of government.
- 486-4. CONTEMPORARY POLITICAL THEORIES. A study of the important political theories since 1800, including the theories of Marx, Hegel, and John Stuart Mill. May be counted as government or philosophy. Prerequisite: 6 hours of government.
- 487-4. AMERICAN POLITICAL IDEAS. (Same as Philosophy 487.) An historical study of the political ideas of leading American statesmen and publicists, and their resulting influence upon our governmental system. May be counted as government or philosophy. Prerequisite: 6 hours of government.
- 495-4. CONSTITUTIONAL LAW I. A study of the constitutional law of the United States with emphasis on cases dealing with the framework of our federal system. Prerequisite: 101, 190 or 231.
- 496-4. CONSTITUTIONAL LAW II. A study of the constitutional law of the United States with emphasis upon cases dealing with the framework of American liberties. Prerequisite: 101, 190 or 231.

Courses on the 500 level are for graduate students only.

- 512 SEMINAR IN PUBLIC ADMINISTRATION. Prerequisite: consent of instructor.
- 530-1 to 12. INTERNSHIP IN PUBLIC AFFAIRS. A course involving field work in the office of a governmental agency: city, county, state, and national or international. Under certain circumstances it might be in the office of a political party organization or in that of some organized pressure group. Prerequisite: consent of instructor.

HISTORY

Students who intend to make history their major field should consult with a member of the history faculty at the time of registration. Forty-two hours are required for a student working toward a Bachelor of Arts degree with a major in history. Forty-eight hours and one minor or thirty-six hours and two minors are required for a student working toward a Bachelor of Science in Education degree with a major in history. All history majors must take 101, 102, 103, 201, 202, and 452. At least half of the work of a major must be on the 300 and 400 levels, and care should be taken to distribute the work in the fields of American and European history. A year of work in a foreign language is required of all history majors.

Twenty-four hours are required for a minor in history, and must include 101, 102, 103, 201, and 202. Students in education wishing to use a history minor should take twelve hours each in the European and American fields.

Two quarters of history 101, 102, 103 will meet the general degree requirement except in education. Five hours of United States history are required for graduation in education. History 201 or 202 will meet this requirement.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level are for both undergraduate and graduate students. Those on the 500 level are for graduate students only.

- 101-3, 102-3, 103-3. SURVEY OF WESTERN CIVILIZATION. Designed primarily for freshmen as a study of the development and evolution of western civilization. Course 101 covers material from the ancient period to 1000; 102: 1000-1815; and 103: 1815 to the present. Required of all history majors and minors.
- 201-5. THE UNITED STATES TO 1865. A general survey of the political, social, intellectual, and economic development of the United States to 1865. Course 201 includes national and state constitutional principles as required by Illinois law. Required of all history majors and minors. Prerequisite: sophomore standing.
- 202-5. THE UNITED STATES SINCE 1865. Continuation of 201. Either 201 or 202 to count toward graduation requirements in education. Required of all history majors and minors. Prerequisite: sophomore standing.
- 305-3. HISTORY OF GREECE. Political, social, economic, and cultural developments from the Aegean period to the establishment of Hellenistic civilization. Prerequisite: freshman survey.
- 306-3. HISTORY OF ROME. Political, social, economic, and cultural developments from the Etruscan period to the fall of the Empire in the West. Prerequisite: freshman survey.
- 308-3. HISTORY OF ILLINOIS. Political, social, economic, and cultural history of the state from 1818 to the present. Recommended for prospective teachers. Prerequisites: 201 and 202.
- 309-4. THE NEGRO IN AMERICA. The role of the Negro in America from the seventeenth century to the present with emphasis on the period since 1865. Prerequisite: 201 or 202.
- 311-3. MEDIEVAL HISTORY. Europe from the fall of Rome to the Renaissance. Prerequisite: freshman survey.
- 312-2. CENTRAL EUROPE IN THE NINETEENTH CENTURY. An analysis of the rise of nationalism with emphasis on Germany and Italy and of the problems of the Austro-Hungarian Monarchy. Prerequisite: freshman survey.
- 314-3. THE AGE OF ABSOLUTISM AND THE ENLIGHTENMENT. An examination of the major developments in European history from 1648 to 1789. Prerequisite: freshman survey.
- 322-4, 323-4, 324-4. ENGLISH HISTORY. A study of the institutional and

- cultural development of the English people from the earliest times to the present. 322: Celtic Britain to 1603; 323: 1603-1815; 324: since 1815. Prerequisite: freshman survey.
- 330-3. THE REVOLUTION AND THE CONSTITUTION. A detailed examination of the period 1763 to 1789 in United States history. Prerequisite: 201.
- 352-3. COLONIAL LATIN AMERICA. With a preliminary view of the major Indian cultures and the era of discovery and exploration, this survey emphasizes the political, economic, social, and cultural aspects of Latin-American life through the wars of independence. Prerequisite: freshman survey.
- 353-3. INDEPENDENT LATIN AMERICA. A survey of historical patterns and problems in the national life of twenty American countries, from independence to the present. Prerequisite: freshman survey.
- 354-3. LATIN AMERICA IN WORLD AFFAIRS. A survey of the international role of Latin America with emphasis on the economic, diplomatic, and military record from the Treaty of Tordesillas to membership in the United Nations. Prerequisite: freshman survey.
- 365-4. HISTORY OF CHINESE CIVILIZATION. A survey of the development of Chinese civilization from prehistoric times to the present. Prerequisite: freshman survey.
- 367-3. INTRODUCTION TO FAR EASTERN CIVILIZATION. (Oriental Civilization I.) A broad survey of Far Eastern history and culture up to the nineteenth century. Prerequisite: freshman survey.
- 368-3. THE FAR EAST AND MODERN IMPERIALISM. Discussion of Far Eastern international relations against the background of modern imperialism, 1800-1941. Prerequisite: freshman survey.
- 369-3. THE CONTEMPORARY FAR EAST. Rise of Communist China; post-war problems in the Far East; the cold war; and the problems of new nations. Prerequisite: freshman survey.
- 372-3. RUSSIAN HISTORY TO 1905. The Kievan and Muscovite background; main currents in Imperial Russia. Prerequisite: freshman survey.
- 373-3. RUSSIAN HISTORY SINCE 1905. Decline and fall of the Russian Empire, the revolution, and the subsequent development of the Soviet Union. Prerequisite: freshman survey.
- 401-3. THE OLD SOUTH. A study of the South from the colonial period to the Civil War. Prerequisite: 201.
- 402-3. THE NEW SOUTH. A history of the South since 1860. Prerequisite: 202.
- 405-3. CIVIL WAR AND RECONSTRUCTION. The political and economic background of the war, the military aspects of the conflict, and the course and consequences of reconstruction. Prerequisites: 201, 202.
- 410-2 to 5. SPECIAL READINGS IN HISTORY. Supervised readings for students with sufficient background. Registration by special permission only. Offered on demand.
- 411-3, 412-3, 413-3. INTELLECTUAL HISTORY OF THE UNITED STATES. Study of the economic, social, and political thought that has influenced the development of the nation. Prerequisites: 201, 202.
- 415-3. THE AGE OF THE RENAISSANCE. The Renaissance in Italy and its development in other sections of Europe. Prerequisite: freshman survey.
- 416-3. THE AGE OF THE REFORMATION. An analysis of the period which

- produced the Protestant and Catholic Reformations. Prerequisite: freshman survey.
- 420-3. THE FRENCH REVOLUTION. An intensive study of the period 1789 to 1815. Prerequisite: freshman survey.
- 425-3. AMERICAN COLONIAL HISTORY. Founding of the American colonies and the development of their institutions to 1763. Prerequisite: 201.
- 428-4. AGE OF JACKSON. Origins, background, and development of that phase of American democracy associated with the Jacksonian era. The political, social, and economic history of the years 1824-44 will be considered in detail. Prerequisite: 201.
- 436-3. RECENT UNITED STATES HISTORY. An analysis of the major developments in twentieth century America from 1900 to 1929. Prerequisite: 202.
- 437-3. RECENT UNITED STATES HISTORY. Continuation of 436 covering the period from 1929 to the present. Prerequisite: 202.
- 440-3. AMERICAN DIPLOMACY TO 1898. A general consideration of American foreign policies. Prerequisites: 201, 202.
- 441-3. AMERICAN DIPLOMACY SINCE 1898. Continuation of 440. Prerequisite: 202.
- 442-3, 443-3, 444-3. HISTORY OF THE WEST. A series of three courses that provide an intensive study of the influence of the frontier on United States history. Prerequisites: 201, 202.
- 450-3. EUROPE SINCE 1914. Political and cultural developments in twentieth century Europe with emphasis on international relations. Prerequisite: freshman survey.
- 452-3. HISTORICAL RESEARCH AND THESIS WRITING. A methods course in research principles which requires the preparation of a research paper. Required of all majors. Prerequisite: senior standing.
- 454-3. BIOGRAPHY IN AMERICAN HISTORY. Outstanding leaders and their contributions to the history of the United States. Attention to historical writers who specialize in biography. Prerequisite: a course in United States history.
- 490-3. HISTORY IN THE SECONDARY SCHOOL. A methods course for prospective teachers.

Courses on the 500 level are for graduate students only.

- 500-3 to 9. HISTORY SEMINAR. Research methods applied to the various history fields.
- 519-5. THE AGE OF JEFFERSON. Rise and development of Jeffersonian Democracy, 1790-1824, with emphasis upon social, economic, and political programs of Republicans and Federalists; the clash of mercantile and agrarian interests.

SOCIOLOGY AND ANTHROPOLOGY

Sociology offers major and minor programs for those working for a Bachelor of Arts degree and a Bachelor of Science in Education degree.

A sociology major with a specialization in social work is also offered.

This program is intended primarily for students who plan to enter a professional school of social work.

Requirements for a general sociology major: a minimum of four hours in psychology, social anthropology, and statistics; a minimum of forty-two hours in sociology including 101, 312, 321, 400, 407, 451, with the remaining hours to be taken in courses whose second digit in the course number is 0 through 7. A background course in zoology is also recommended.

Requirements for a major in sociology with a specialization in social work: a minimum of four hours in economics, psychology, social anthropology, and statistics; a minimum of eight hours in government in the area of American national, state, and local government; a minimum of forty-two hours in sociology including 101, 102, 321, 333, 340, 373, 380, 383, 481, and 482.

Sociology majors working toward a Bachelor of Science in Education degree must have (1) forty-eight hours of sociology, with one minor which should be in a field other than the social sciences or (2) thirty-six hours in sociology, with two minors, one of which should be in another social science. The following specific courses are required of majors: Sociology 101, 102, 321, 333, 340.

COURSE DESCRIPTIONS

Courses on the 100, 200, and 300 levels are for undergraduate students. Those on the 400 level may be taken by undergraduate and graduate students.

Anthropology

- 110-4. **WAYS OF MANKIND.** Anthropology as a science and a profession. Survey of human origins, prehistory, world ethnography. The significance of anthropology in the world today.
- 300-4. **MAN'S PLACE IN NATURE.** Man as a biological being, his relationships to other living things, human origins and development, the concept of race and races of mankind, human genetics, and normal human variation.
- 304-4. **THE ORIGINS OF CIVILIZATION.** The conditions that produced the early high culture of both Old and New Worlds. A study of the complex environmental and cultural factors that led to the rise and fall of early civilizations.
- 308-4. **PEOPLES AND CULTURES OF THE OLD WORLD.** The varieties of people and customs in Asia, Africa, Europe, and the Pacific Islands. The biological and cultural history of man in the Old World from the earliest known times to the present day.
- 310-4. **MAN AND CULTURE.** The nature of culture and cultural process. The

interrelationships between culture and man as an individual and as a group, with emphasis on the cultural point of view as an aid in understanding human actions and reactions in the world today.

- 314-4. **INDIANS OF NORTH AMERICA.** A survey of North American Indian cultures as they have existed within historic times.
- 409-4. **ANTHROPOLOGY AND MODERN LIFE.** The uses of anthropology in the present-day world. How the anthropologist aids the administrator, businessman, government official, and other specialists.
- 470-3. **SOCIAL ANTHROPOLOGY.** Theory and method in community study; functional analysis, cultural themes and values in both primitive and modern cultures.

Sociology

Courses in sociology are listed according to fields. The second digit in a course number indicates its field. As follows:

- 00-09 General Sociology
- 10-19 Methodology and Research Techniques
- 20-29 Social Psychology
- 30-39 Social Organization and Structure
- 40-49 Family
- 50-59 Sociology of Knowledge
- 70-79 Special Fields
- 80-89 Applied Fields

General Sociology and Theory

- 101-5. **INTRODUCTORY SOCIOLOGY.** Scientific study of human society and the various means by which individuals and groups adjust to each other and to their physical and social environment.
- 102 (202)-5. **SOCIAL PROBLEMS.** An analysis of selected contemporary social problems in their social and cultural setting such as crimes, suicide, mental illness, the vices, family disorganization, with emphasis upon their extent and significance.
- 306 (331)-4. **SOCIAL CONTROL.** The means and principles of social controls; social institutions as factors in control; techniques of directing social action. Prerequisite: 101.
- 396-1 to 5. **READINGS IN SOCIOLOGY.** Supervised reading in selected subjects. Prerequisite: consent of instructor.
- 400 (460)-2. **CURRENT SOCIOLOGY.** Students read, report on, and evaluate content of leading sociological journals. Prerequisite: eight hours of sociology.
- 406 (500)-3. **SOCIAL CHANGE.** Processes of social change in the modern world; culture lag and conflict of norms; individual and social problems arising from conflicting systems of social values and cultural norms. Prerequisite: eight hours of sociology.
- 407-4. **INTEGRATED SOCIOLOGY.** Designed for senior students with a sociology major. Integration of sociological concepts and principles: society and culture, the human group, social norms and patterns, status and roles, organization, structure and function, and social change. Prerequisite: 15 hours of sociology.

Methodology and Research Techniques

- 312-5. SOCIOLOGICAL RESEARCH. Part played by research in the development of sociology as a science. Application of scientific method to social data. Types of research. Prerequisites: 101 and four hours of statistics.

Social Psychology

- 320-4. RACE AND MINORITY GROUP RELATIONS. Racial and cultural contacts and conflicts, causes of prejudice; status and participation of minority groups; national and international aspects of minority problems. Prerequisite: 101.
- 321-4. SOCIALIZATION OF THE INDIVIDUAL. The process of socialization in infancy, childhood, and adolescence; development of habits; attitudes, sentiments; emergence of the self; integration of the individual and society. Prerequisite: 101.
- 322 (330)-3. PROPAGANDA AND PUBLIC OPINION. Techniques and characteristics of propaganda; methods of measuring public opinion. Prerequisite: 101.
- 424 (405)-4. COLLECTIVE BEHAVIOR. The behavior of people in large groups; collective interstimulation and emotions; crowds, audiences, and publics; mass stimuli and mass response. Prerequisite: 321 or 322 or consent of instructor.
- 426 (355)-4. SOCIAL FACTORS IN BEHAVIOR AND PERSONALITY. How group situations and values affect behavior and shape personality; development of concepts, role-concepts, attitudes, values; theories of motivation; self-concepts; conflicting social values in relation to individual motivation. Prerequisite: 321 or Psychology 305 or consent of instructor.
- 427(381)-4. PERSONALITY AND SOCIAL ADJUSTMENT. Basic mechanisms of adjustive behavior; concepts and criteria of personal integration and social adjustment; varieties of adjustive and non-adjustive behavior; theories of personal organization and disorganization; selected problems. Prerequisite: 321 or Psychology 305 or consent of instructor.

Social Organization and Structure

- 333 (375)-4. COMMUNITY ORGANIZATION. Factors involved in community organization; types, aims, and objectives; community diagnosis; individual case study of specific community. Prerequisite: 101.
- 335 (311)-4. URBAN SOCIOLOGY. The rise, development, structure, culture, planning, and problems in early and modern cities. Prerequisite: 101.
- 338 (325)-4. INDUSTRIAL SOCIOLOGY. Social organization and processes within the formal and informal structure of the industrial unit; research and experimental materials concerning social determinants of morale, status, and role of the worker. Prerequisite: 101.

Family

- 241 (203)-4. MARRIAGE AND PARENTHOOD. The social psychology of dating, courtship, and family relations; evaluation of research findings;

problems of applying scientific principles to changing overt behavior. Prerequisite: 101.

- 340 (310)-4. THE FAMILY. The family in historic and contemporary society; evolution of the modern family; changes in family functions, structures, and roles. Prerequisite: 101.

Sociology of Knowledge

- 351 (318)-4. SOCIOLOGY OF RELIGION. Function of religious institutions in society and their relationship to other major social institutions; role in social control and group solidarity. Prerequisite: 101.
- 450-4. SOCIAL THOUGHT I: BEFORE 1800. Ancient background of Western social thought; development of modern social thought. Prerequisite: general background in history.
- 451 (455)-4. SOCIAL THOUGHT II: THE SOCIOLOGICAL MOVEMENT. Rise and development of scientific social thought in Western society. Prerequisite: background in nineteenth-century history or literature.
- 452-4. SOCIAL THOUGHT III: TWENTIETH CENTURY. A survey of important trends in contemporary social thought.
- 453-4. SOCIAL MOVEMENTS. A sociological study of modern social movements; social and cultural backgrounds, forms of expression and organization; social structure of social movements, their role and function in modern society. Prerequisite: eight hours of sociology.

Special Fields

- 371(314)-4. POPULATION AND MIGRATION. Quality and quantity of population, problems of growth, composition, distribution differential fertility, international and internal migration, and control of numbers and quality. Prerequisite: 101 or equivalent in economics, geography or government.
- 372 (315)-4. CRIMINOLOGY. The nature of crime; criminal statistics; causal factors; theories and procedures in prevention and treatment. Prerequisite: 101.
- 373 (301)-4. JUVENILE DELINQUENCY. Nature of juvenile delinquency; factors contributing to delinquent behavior; treatment and prevention. Prerequisite: 101.
- 374 (313)-3. SOCIOLOGY OF EDUCATION. Methods, principles, and data of sociology applied to the school situation; relation of the school to other institutions and groups; may be counted either as sociology or education. Prerequisite: 101.

Applied Fields

SOCIAL WORK, REHABILITATION

- 380 (235)-4. INTRODUCTION TO SOCIAL WORK. The historical development, philosophy, and theory forming the basis for the professional practice of social work; processes developed and the specialties within each of them; personal and educational requirements for the career opportunities available. Prerequisite: 101.

- 383 (337)-4. INTRODUCTION TO INTERVIEWING. Theory and practice of interviewing as a means of gaining information, and of understanding and imparting the same. Focus is on the interview as a tool in social work, but principles are generally applicable. Prerequisite: 101 or Psychology 201.
- 472-4. TREATMENT AND PREVENTION OF CRIME. Principles of penology; history of punishment and prisons; criminal law, police function, criminal courts; the prison community; the juvenile court and related movements. Prerequisite: 372.
- 481-4. PROCESSES IN SOCIAL WORK. Theory, rationale, and practice of casework, group work, social welfare organization, and the roles of supervision, administration, and research in relation to each. Case material study and discussion with field observation and practice. Prerequisite: 380 or consent of instructor.
- 482-3. SOCIAL WORK IN SELECTED AGENCIES. Study of representative literature on casework in family, psychiatric, medical, school, military, child welfare, correctional settings, and others. Case material study and discussion with field observation and practice. Prerequisite: 481.

FAMILY COUNSELING

- 484 (403)-3. SURVEY COURSE IN MARRIAGE COUNSELING. Survey and analysis of the field of marriage counseling; assessment of current practices and techniques in terms of contemporary sociological theory. Prerequisites: 241 and consent of instructor.

COMMUNITY SERVICE

- 388-3 to 6. WORKSHOP IN INTER-GROUP RELATIONS. Designed to provide theoretical and practical understanding of cultural, social, and psychological factors associated with inter-group tension. Participants concentrate their efforts on problem-solving activities related to their occupational, professional, or civic interests. Resource and consultative staff from the academic areas of education, psychology, sociology, and social work.

GRADUATE COURSE OFFERINGS

Dean of the Graduate School Willis G. Swartz, Ph.D. (Iowa) 1930

Assistant to the Dean for Graduate Advisement

Leonard B. Wheat, Ph.D. (Columbia) 1958

The purpose of graduate course offerings is to make available to advanced students courses and other work which will increase their competencies in particular fields. Development of the power of independence investigation is especially sought. The association of mature and beginning

scholars is an important aspect of graduate work and is encouraged. Major study may be done in educational administration, elementary education, guidance and counseling, instructional supervision, secondary education, and special education. Graduate courses in other areas are offered at various times during the school year.

TECHNICAL AND ADULT EDUCATION

Dean of Technical and Adult Education Ernest J. Simon, M.S. (Illinois)	1950
Supervisor E. R. Casstevens, B.S. (U.S. Naval Academy)	1959
Assistant Supervisor Dale F. Blount, B.S. (Rockhurst)	1960

An adult education program consisting of noncredit courses in various industrial, technical and general education fields is offered.

Adults may register for these courses regardless of educational background. Occasionally, prerequisites may be established for specific courses because of their nature. The classes cover a wide range of interest and activities and are being developed further to meet other needs.

These courses are taught by University faculty members as well as outstanding industrial, professional, and business leaders. The practical, functional approach is used by the instructors. In many instances, the University co-operates with groups representing management, labor, and others as well as with individual industrial and municipal organizations. Courses are then planned and offered to meet the specific needs of these groups. Programs and course offerings are announced as they develop.

REGISTRATION FOR TECHNICAL AND ADULT EDUCATION COURSES

It will be necessary for interested students to preregister for the course or courses of their choice in order to make arrangements for the various sections of classes. The time and place of registration at each location is the subject of special announcement. Interested students should address the Supervisor, Industrial and Technical Programs, Southern Illinois University, Edwardsville, Illinois, for specific information regarding registration.

VETERANS

A veteran who has a legal resident of Illinois at the time of entrance into service may attend under an Illinois Military Scholarship, which will satisfy his tuition charge. If the veteran has already been awarded such a scholarship by the University, he should bring the award letter with him at the time of registration. If he has not been awarded one he must bring a copy of his separation papers showing place of residence at the time of entering the service.

COURSES

The following courses of the industrial management program are offered at the Granite City High School, the Alton center, and the East St. Louis center. Occasionally the course content may be modified to meet the needs of the industrial area.

COST CONTROL. Shows the foreman and supervisor how to hold costs down and helps them to understand the resulting benefits to the company, its employees, its customers, and supervisory personnel. Outlines factors which influence cost problems at the foreman's level of supervision, such as training, salvage, tools, material, maintenance, changes in production methods, time studies, budgets, overhead, reports, effect of competition.

EFFECTIVE SPEAKING FOR SUPERVISORS. Designed to help the foreman see his over-all communications responsibilities in relation to all of his contacts and duties in industry. Involves the fundamentals of speaking, such as choosing a topic, gathering and organizing material, analyzing the audience, effective presentation, correct pronunciation of commonly mispronounced words, persuasive motivation, and chalk talk including demonstration. Emphasis is on conference and individual speech situations.

INDUSTRIAL ECONOMICS. A survey of the American economic structure in which terms such as economics, production, wealth, and income are defined. The relationship between wages, prices, profits, and production is studied. Other topics of discussion include inflation and the price level, unemployment, economics and determination of prices, interest and profits.

INDUSTRIAL ENGINEERING. An introduction to the basic elements of industrial engineering, including job evaluation, time and motion study, methods analysis and improvements, work simplification and other related items.

INDUSTRIAL REPORT WRITING. A study of the types of reports common to an industrial situation and practice in preparing written reports, memoranda and interdepartmental communications that command attention. Special emphasis is given to practice writing.

INDUSTRIAL SAFETY. A course covering such essential topics as accident distribution, appraising employee attitudes, promoting employee interest in the safety program, plant layout, production planning and proper maintenance of plant equipment.

LABOR-MANAGEMENT RELATIONS I. Investigates the development of collective bargaining in union-management relations and studies the initiation, negotiation, approval, and administration of contract provisions. The main provisions of agreements—wages, grievance settlements, working conditions, management and union security—are included.

LABOR-MANAGEMENT RELATIONS II. A discussion of actual cases in labor-management relations in industry. This includes case problems in grievance handling, contract negotiations, disciplinary action, joint projects, incentive plan administration, seniority matters, working conditions, and the like. Emphasis is on current problems and trends.

IN-PLANT PROGRAM

On request by individual industries or other organizations, the University will prepare special non-credit programs of instruction to be put on in-plant. These courses are presented by the University faculty or by outstanding consultants in the area. On some occasions Industrial Management Program courses are presented in-plant to night shift people who could not otherwise attend these courses. In-plant courses have been particularly effective because they can be tailored to the specific needs of the plant or organization involved. Some of the organizations who have used this service are listed along with representative courses.

American Zinc Company	Conference Leadership
Dow Metal Products	Reading Improvement
Granite City Engineering Depot	Technical Report Writing
Granite City Steel Company	Coaching and Counseling
	Metallurgy
	Supervisor and His Job
Laclede Steel Company	Industrial Report Writing
	Industrial Safety
Monsanto Chemical Company	Effective Speaking for Supervisors
	Industrial Report Writing
Owens-Illinois Glass Company	Reading Improvement
A. O. Smith Corporation	Advanced English
	English Grammar
	Industrial Report Writing
	Labor-Management Relations
	The Supervisor and His Job
Union Starch and Refining Company	Conversational Spanish
United Steel Workers of America	Leadership for Unions

TECHNICAL PROGRAM

This program provides instruction of a technical and specialized nature not otherwise available in this area. Instructors are provided who have specialized and distinguished themselves in the field being covered. Courses may be offered to fill a current need or to help satisfy a continuing need.

A continuing program for the trucking industry is the Traffic Management Program. Still being expanded, this program consists at present of four courses offered at the East St. Louis center only.

RATES AND TARIFFS I. A study of the basic structure of tariffs and the related fundamentals; the classification of commodities; rules and regulations; the kinds of tariffs; the functions of interstate and intrastate regulatory bodies and the actual checking of rates and charges.

RATES AND TARIFFS II. A continuation of the study begun in Rates and Tariffs I. This course deals with the same topics but does so in more detail.

TRAFFIC MANAGEMENT I. Advanced rate making, bureau procedure, transportation regulations and general traffic matters.

TRAFFIC MANAGEMENT II. A continuation of general traffic matters and coverage of Interstate Commerce Commission law.



Southern Illinois University Foundation

The Southern Illinois University Foundation is a nonprofit corporation chartered by the state and authorized by the Board of Trustees to receive gifts for the benefit of the University, to buy and sell property, and otherwise serve the University.

It respectfully asks alumni and other citizens of Southern Illinois to consider making gifts and bequests to benefit the University. Such gifts should be conveyed to the Foundation, with proper stipulation as to their uses. The Foundation, through its officers and members, will be glad to confer with intending donors regarding suitable clauses to insert in wills and suitable forms of gifts and memorials, including bequests by means of life insurance. Large or small gifts to the library will be appreciated; likewise, gifts for special equipment, holdings, endowment of professorships in particular subjects, gifts to student loan funds and scholarship funds, gifts for the use of foreign students, and endowments for particular sorts of research. Any gifts or bequests can be given suitable memorial names.

The staff members of the Foundation are

- Mr. Kenneth B. Miller, *Executive Director*, Carbondale, Illinois
- Mrs. Lois H. Nelson, *Secretary*, Carbondale, Illinois
- Mr. Robert L. Gallegly, *Treasurer*, Carbondale, Illinois
- Mr. C. Eugene Peebles, *Assistant Treasurer*, Edwardsville, Illinois
- Mr. C. Richard Gruny, *Legal Counsel*, Carbondale, Illinois
- Mr. L. James Struif, *Assistant Legal Counsel*, Edwardsville, Illinois
- Mr. Donald Leavitt, *Patent Counsel*, St. Louis, Missouri
- Mr. Warren Stookey, *Field Representative*, Edwardsville, Illinois.

Objectives of Southern Illinois University

TO EXALT BEAUTY

IN GOD,
IN NATURE,
AND IN ART;
TEACHING HOW TO LOVE THE BEST
BUT TO KEEP THE HUMAN TOUCH;

TO ADVANCE LEARNING

IN ALL LINES OF TRUTH
WHEREVER THEY MAY LEAD,
SHOWING HOW TO THINK
RATHER THAN WHAT TO THINK,
ASSISTING THE POWERS
OF THE MIND
IN THEIR SELF-DEVELOPMENT;

TO FORWARD IDEAS AND IDEALS

IN OUR DEMOCRACY,
INSPIRING RESPECT FOR OTHERS
AS FOR OURSELVES,
EVER PROMOTING FREEDOM
WITH RESPONSIBILITY;

TO BECOME A CENTER OF ORDER AND LIGHT

THAT KNOWLEDGE MAY LEAD
TO UNDERSTANDING
AND UNDERSTANDING
TO WISDOM.

General Information

Announcements for 1961-1963



SOUTHERN ILLINOIS UNIVERSITY BULLETIN
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The following issues of the *Southern Illinois University Bulletin* may be obtained without charge from General Publications, Southern Illinois University, Carbondale, Illinois.

General Information
Summer Session
Schedule of Classes (Carbondale)
Schedule of Classes (Edwardsville)
General Announcements (Edwardsville)
Graduate School
College of Education
College of Liberal Arts and Sciences
School of Agriculture
School of Applied Science
School of Business
School of Communications
School of Fine Arts
School of Home Economics
University Institutes
Division of Technical and Adult Education

All intending students should have the General Information Bulletin (issued once a year), plus the special bulletins of the various educational units in which they are most interested.

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This Bulletin

contains general information about the University, its instructional units, and the degrees it confers. Also included are details concerning admission, advisement, registration, fees, housing, financial assistance, student employment, the Department of Nursing, and the Air Force Reserve Officers Training Corps.

For details concerning any particular school or college of the University, refer to the appropriate bulletin listed on page ii.

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University Calendar, 1961-1962

SUMMER SESSION

Session Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Final Examinations	Wednesday–Thursday, August 9–10
Commencement	Friday, August 11

FALL QUARTER

New Student Week (Carbondale)	Sunday–Tuesday, September 17–19
New Student Week (Edwardsville)	Saturday–Sunday, September 16–17
Quarter Begins	Wednesday, September 20
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 22–27
Final Examinations	Monday–Saturday, December 11–16

WINTER QUARTER

Quarter Begins	Tuesday, January 2
Final Examinations (Carbondale)	Monday–Saturday, March 12–17
Final Examinations (Edwardsville)	Wednesday–Monday, March 14–19

SPRING QUARTER

Quarter Begins	Monday, March 26
Memorial Day Holiday	Wednesday, May 30
Final Examinations	Wednesday–Tuesday, June 6–12
Commencement (Carbondale)	Wednesday, June 13
Commencement (Edwardsville)	Thursday, June 14

Summer classes begin on Tuesday, June 20. During a quarter, Carbondale day classes begin on the second day of the quarter. Carbondale evening classes (5:45 p.m. or later) begin on the first day. Classes on the Edwardsville campuses begin on September 21, January 4, and March 28.

University Calendar, 1962-1963

SUMMER SESSION

Session Begins	Monday, June 18
Independence Day Holiday	Wednesday, July 4
Final Examinations	Wednesday–Thursday, August 8–9
Commencement	Friday, August 10

FALL QUARTER

New Student Week	Friday–Sunday, September 21–23
Quarter Begins	Monday, September 24
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 21–26
Final Examinations	Wednesday–Tuesday, December 12–18

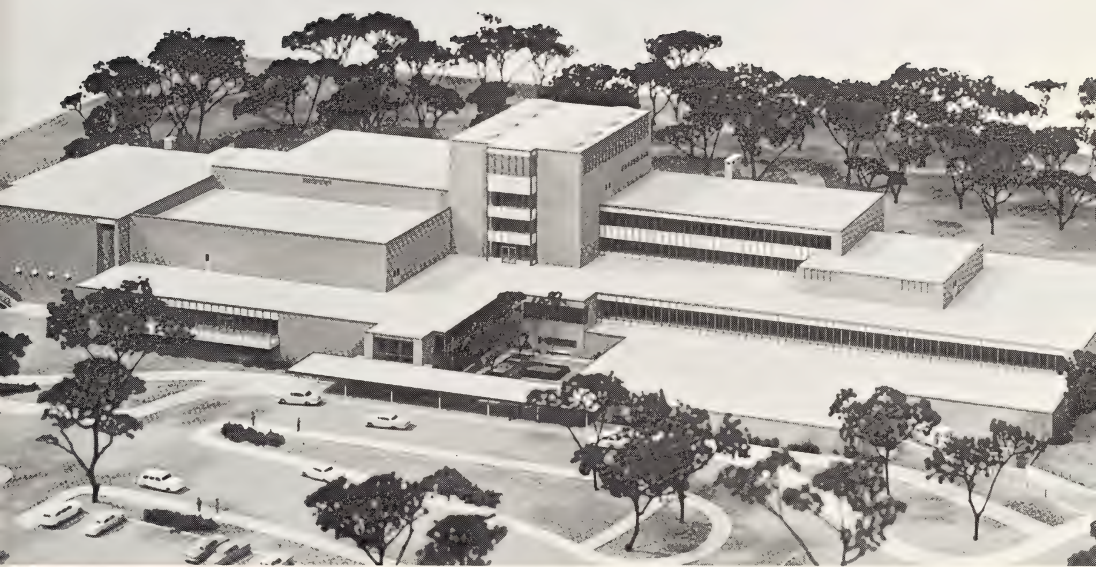
WINTER QUARTER

Quarter Begins	Wednesday, January 2
Final Examinations	Wednesday–Tuesday, March 13–19

SPRING QUARTER

Quarter Begins	Wednesday, March 27
Memorial Day Holiday	Thursday, May 30
Final Examinations	Thursday–Wednesday, June 6–12
Commencement	Thursday, June 13

Summer classes will begin on Tuesday, June 19. During the fall, winter, and spring quarters, day classes will begin on the second day of the quarter. Evening classes (5:45 P.M. or later) will begin on the first day of the quarter.



University Center

Dedicated on June 10, 1961, and formally opened for use on July 5 following, the new University Center provides a quarter of a million square feet of area for a greatly enriched program of co-curricular and learning experiences. It was constructed with funds borrowed from the Housing and Home Finance Agency and the sale of revenue bonds. This debt will be paid with income from student fees and from income-producing operations of the building.



*The main entrance
faces east overlooking
McAndrew Stadium.*

*A wide marble stairway
in the main entry,
flanked by large
planting areas, provides
access to the main
ballroom.*



*The Magnolia Lounge
affords a view to the west
overlooking the outdoor
terrace into Thompson
Woods.*



The Renaissance Room is one of several private dining rooms.

Sixteen modern bowling lanes are among the many indoor sports activities provided.



This spacious outdoor terrace lounge on the west side of the building is just a few steps from the edge of Thompson Woods.



This spacious lounge area is adjacent to the main ballroom. Mirrored walls at either end give it an even more spacious appearance.



One of the several River Rooms utilized for dining-meeting rooms for small groups.



Edwardsville Campuses

The operational program of Southern Illinois University's Edwardsville Campuses is unique. In East St. Louis, classes are conducted in the building formerly occupied by the Senior High School, while at Alton, classes are held on the campus of the former Shurtleff College. Most of the administrative offices of the Edwardsville Campuses are housed in temporary residence buildings on the proposed ultimate campus site at Edwardsville.



One of the picturesque buildings where classes are held on the Alton campus is Science Hall. Like the other buildings on this campus, it is constructed of stone and is beautifully landscaped.

The former Senior High School, this building houses the University's program in East St. Louis.



Part of the ultimate site of the Edwardsville campus, this area provides the setting for outdoor commencement exercises.





The University

SOUTHERN ILLINOIS UNIVERSITY was established in 1869 as Southern Illinois Normal University. The shortened name became official in 1947 by action of the state legislature.

In 1874 the first building on the campus at Carbondale was completed, financed by state-appropriated funds and contributions from citizens of Jackson County. In the fall of that year, the first regular academic year for the school, 150 students were enrolled. The student population has increased steadily to over 13,300 resident students and another 3,000 taking off-campus work.

For some years after its establishment, Southern operated as a two-year normal school. In 1907 it became a four-year, degree-granting institution, though continuing its two-year course until 1936. In 1943, after a vigorous campaign led by President Roscoe Pulliam, the state legislature changed the institution, which had been in theory exclusively a teacher-training school, into a university, thereby taking official recognition of the great demand in the area for diversified training.

The action of the legislature led to establishing colleges of Education, Liberal Arts and Sciences, and Vocations and Professions, offering the Bachelor of Science in Education, Bachelor of Arts, and Bachelor of Science degrees. In 1947 the Bachelor of Music degree was approved, in 1951 the Bachelor of Music Education, and in 1957 the Bachelor of Science in Agriculture. Graduate work was instituted in 1943 and the Graduate School was formally established in 1948. At this time it was authorized to grant the Master of Arts and Master of Science degrees in addition to the Master of Science in Education. In 1952 the Master of Fine Arts degree was added to the list, the Doctor of Philosophy in 1955, and in 1956 the Master of Music, and the Master of Music Education. The divisions of Communications, Fine Arts, and Rural Studies were established in 1953, and in 1955 became the schools of Communications, Fine Arts,

and Agriculture respectively. The College of Vocations and Professions was dissolved, and a School of Business was created in 1956. In 1957 the Department of Home Economics became the School of Home Economics, and in 1959 the Department of Applied Science became the School of Applied Science. On July 1, 1961, the School of Applied Science was re-named as the School of Technology, which will include the engineering programs. The growth of classes for adults and for those seeking technical training led to the establishment in 1953 of the Division of Technical and Adult Education, of which the Vocational-Technical Institute is a part.

The Small Business Institute was established in 1954, and the Community Development Institute was established in 1956. The Labor, Latin American, and Rehabilitation institutes were created in 1957 and the Transportation Institute in 1960.

In 1949 the Belleville Residence Center was established. Then, because of the growing demand for educational opportunities in the Madison-St. Clair counties area, the University established the Alton Residence Center and the East St. Louis Residence Center in 1957. In 1958 the Southwestern Illinois Residence Office was created to co-ordinate and direct the educational activities in this area. In 1959 the Southwestern Illinois Campuses were recognized as a unit co-ordinate with the Carbondale campuses.

At the present time the administrative offices of the Southwestern Illinois Campus, located at Edwardsville, direct the educational programs at Alton and East St. Louis. The academic organization of the Edwardsville campuses consists of six divisions of instruction with a number of major programs in each division. The divisions are business, education, fine arts, humanities, science and technology, and social sciences.

The presidents of the University have been

Robert Allyn	1874-1892
John Hull	1892-1893
Harvey W. Everest	1893-1897
Daniel B. Parkinson	1897-1913
Henry W. Shryock	1913-1935
Roscoe Pulliam	1935-1944
Chester F. Lay	1945-1948
Delyte W. Morris	1948-

LOCATION

Southern Illinois University has educational programs in operation at Carbondale; in the Madison-St. Clair counties area; at Southern Acres, ten

miles east of Carbondale; and at the Little Grassy Lake, ten miles southeast of Carbondale.

Carbondale Campuses

The Carbondale campus is located at the southern edge of Carbondale, a railroad center easily accessible from all directions. The region surrounding Carbondale is noted for its large peach and apple orchards, which in blossomtime attract many tourists. Two state parks and four lakes are located within ten miles of the campus and offer excellent recreational facilities.

The campus is at present undergoing extensive expansion. It now comprises more than 2,500 acres, and more tracts of land are to be added. The following large permanent buildings form the nucleus of the Carbondale campus's physical plant.

Old Main	1886	Woody Hall	1953
Altgeld Hall	1896	Life Science Building	1953
Wheeler Hall	1903	Morris Library	1956
Allyn Building	1908	Thompson Point Residence	
Anthony Hall	1913	Halls (6 buildings)	1956
Shryock Auditorium	1916	Agriculture Building	1957
Gymnasium	1925	Home Economics Building	1958
Parkinson Laboratory	1928	Group Housing (9 units)	1959
McAndrew Stadium	1938	Southern Hills	
Power Plant	1949	Apartments	1959
Service Shops	1951	University Center	1961
University School	1951		

Until additional space is available, the University is making use of several dozen small temporary buildings. Some of these are converted residences; others were built originally as army barracks and have been transported to the campus for office, classroom, dormitory, apartment, and storage space. They will be given up as permanent space becomes available.

The campus at Southern Acres, in the former administrative area of the Illinois Ordnance Plant, contains the educational facilities of the Division of Technical and Adult Education, a veterans housing project, and some dormitory facilities for single students.

The Little Grassy Lake campus includes some 990 acres of land devoted to instruction and training in outdoor education.

Edwardsville Campuses

The central administrative offices directing the educational programs in the Madison-St. Clair counties area are located at Edwardsville. In the

midst of the natural scenic beauty of nearly 2,600 acres of wooded rolling countryside the offices of the President, Dean, Registrar, Business Operations, Personnel and the Library are housed in temporary quarters. The central campus is southwest of Edwardsville.

In April, 1960, a group of consultants began work on a master plan for the new Edwardsville site, which would provide facilities for a daily commuting student body of 18,000 by 1970. With the passage of the bond issue in November, 1960, funds will be available to complete the planning and begin the preliminary construction.

The facilities of the former Shurtleff College have been leased by the University for the operation of the Alton campus. Eight permanent buildings form the nucleus of this 40-acre campus. Nine additional buildings have been prepared on a temporary basis to meet the needs of an expanded undergraduate and graduate program.

The East St. Louis campus is located on Ohio Street at Ninth and Tenth. Laboratories, classrooms, libraries, and other facilities of a former senior high school have been redesigned and re-equipped to provide for a comprehensive undergraduate and graduate program at this campus.

ENROLLMENT

The final registration for the 1960 fall quarter was 8,465 on the Carbondale campus, 4,304 on the Edwardsville campuses, and 563 on the Southern Acres campus, making a total of 13,332 resident students.

SESSIONS

The academic year is divided into three quarters. Each quarter is approximately twelve weeks in length.

The fall quarter opens near the middle of September and closes just prior to the Christmas vacation period. The winter quarter begins early in January and ends around the middle of March. The spring quarter begins the latter part of March and ends about the second week in June. Definite dates for each quarter may be found in the University Calendar.

In addition to the three regular quarters, there is an eight-week summer session which begins immediately following the close of the spring quarter.

The summer session consists of a comprehensive program of courses offered by most departments and divisions of the University. In addition to the courses which run the full eight weeks, there are workshops and short courses covering shorter periods of time.

The basic unit (hour) of instruction is a period of fifty minutes. All schedules allow an interval of ten minutes between successive instruction periods. During the regular academic year daytime classes meet on the hour, from 8:00 A.M. to 5:00 P.M., including the noon hour. On Saturdays, classes are scheduled during the morning hours only. For example, a three-hour course may be scheduled to meet at 8:00 A.M. either on Monday, Wednesday, and Friday, or on Tuesday, Thursday, and Saturday. For the benefit of teachers and other employed persons a certain number of upper-level and graduate courses are scheduled to meet for a longer period on Saturday morning only. Evening classes are usually scheduled to meet two or three evenings a week for extended periods of time. Upper-level and graduate courses are scheduled to meet one evening for a longer period of time. For specific information concerning classes, consult the Schedule of Classes for the appropriate campus.

Summer session class periods are lengthened to seventy-five minutes to compensate for the shorter (eight-week) term.

BULLETINS

The University publishes a General Information bulletin annually. This bulletin provides general information about the entire University. It also furnishes detailed information about the Air Force Reserve Officers Training Corps and the Department of Nursing. In addition, each college, school, and division on the Carbondale campus has its own bulletin furnishing detailed information. A bulletin is also being prepared to give detailed information concerning the Edwardsville campuses. A listing of the bulletins currently available from General Publications appears on page ii of this bulletin.

REGULATIONS

The University and its various instructional units reserve the right to change the rules regulating admission, instruction, and graduation and to change any other regulation affecting the student body. Such regulations shall go into force whenever the proper authorities so determine, and shall apply both to prospective students and to those who have matriculated in the University. The University also reserves the right to withdraw courses and to change fees.

A copy of the rules and regulations governing student life may be obtained from the Office of Student Affairs on any campus of the University.

RESPONSIBILITY OF THE STUDENT

Students of Southern Illinois University are to conduct themselves at all times according to standards expected of responsible persons.

Each student must assume responsibility for his progress by keeping an up-to-date record of the courses he has taken and by checking periodically with his adviser. Responsibility for errors in program or in interpretation of regulations of the University rests entirely with the student. Advice is always available on request.

GENERAL OFFICES

Central Administration

President Delyte W. Morris, Ph.D. (Iowa)	1948
Vice-President for Instruction Charles D. Tenney, Ph.D. (Oregon)	1931
Field Representative Charles C. Feirich, B.J. (Missouri)	1953-54; 1955
Assistant to the President Edward V. Miles, Jr., A.M. (St. Louis)	1919
Administrative Assistant to the President Kenneth R. Miller, M.S. in Ed. (Butler)	1958
Budget Officer Clifford R. Burger, M.S. (Indiana State)	1958
Director James D. Turner, Ph.D. (Indiana)	1958
Acting Legal Counsel C. Richard Gruny, LL.B. (Illinois)	1959
Assistant Legal Counsel L. James Struif, LL.B. (Illinois)	1960
Secretary to the President Lois H. Nelson, M.S. in Ed. (Illinois)	1948
Recorder Charles D. Butler, B.A. (Southern Illinois)	1955
Research Assistant Jane W. Crichton, B.Ed. (Southern Illinois)	1948-52; 1955

Secretary of the University Faculty Elbert Fulkerson, M.A. (Illinois) 1932

Carbondale Campuses

OFFICE OF THE VICE-PRESIDENT

Vice-President for Operations John E. Grinnell, Ph.D. (Stanford)	1955
Dean of Academic Affairs William J. McKeefery, Ph.D. (Columbia)	1961

Registrar

Registrar and Director of Admissions Robert A. McGrath, Ph.D. (Iowa)	1949
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Associate Registrar and Director of Admissions Willis E. Malone, Ph.D. (Ohio State)	1939
Instructor Wilbur Ray Venerable, M.A. (Kentucky), Pre-College Adviser	1957
Lecturer Paul E. Engsberg, M.Ed. (Missouri)	1961-62
Assistant Registrar Sue J. Eberhart, M.S. in Ed. (Southern Illinois)	1948
Assistant Registrar Herbert Wohlwend, M.S. in Ed. (Southern Illinois)	1958
Supervisor Allan Jones, M.A. (Southern Illinois)	1958
Supervisor Marion B. Treece, M.S. in Ed. (Southern Illinois)	1957
Division Chief Vera E. Borger, B.Ed. (Southern Illinois)	1958
Assistant Supervisor Loren H. Young, B.S. (Southern Illinois)	1959

Business Affairs

Director of Business Affairs John S. Rendleman, J.D. (Illinois)	1951
Director of Personnel Office Max M. Sappenfield, Ph.D. (Illinois)	1954
Director of Auxiliary and Service Enterprises Paul W. Isbell, M.S. (Illinois)	1952
Assistant Director of Auxiliary and Service Enterprises Carlton F. Rasche	1951
Supervisor of Campus Services Earl A. Morgan, Jr., B.Ed. (Southern Illinois)	1955
Assistant Co-ordinator Guy J. Moore, B.S. (Southern Illinois)	1957
Supervisor Christina Richart, B.S. (Millikin)	1958
Supervisor Freeman L. Schrodtt, LL.B. (Northwestern)	1954
Supervisor Francis Glynn, B.A. (Lake Forest)	1958
Business Manager Robert L. Gallegly, A.M. (Illinois)	1946
Assistant Business Manager Frank Dusek, B.S. (Southern Illinois)	1952
Assistant to the Business Manager Jack E. Simmons	1960
Chief Accountant Warren E. Buffum, B.A. (Washington)	1950
Assistant Chief Accountant James F. Metcalf, B.S. (Southern Illinois)	1960
Purchasing Agent George Toberman	1957
Bursar Thomas J. Watson, B.S. (Southern Illinois)	1953

Edwardsville Campuses

OFFICE OF THE VICE-PRESIDENT

Vice-President for Operations Clarence W. Stephens, Ed.D. (Indiana)	1952
Dean of Instruction William T. Going, Ed.D. (Michigan)	1957
Associate Dean of Instruction Milton B. Byrd, Ph.D. (Wisconsin)	1958

Registrar

Registrar and Director of Admissions John H. Schnabel, Ed.D. (Indiana)	1957
Assistant Registrar, Edwardsville, Robert M. Martin, M.A. (Illinois)	1959
Assistant Registrar, Alton, Samuel L. Stone, M.S. (Southern Illinois)	1959
Assistant Registrar, East St. Louis, Dorris Wilton, M.A. (Illinois)	1959

Business Affairs

Business Manager C. Eugene Peebles, B.S. (Illinois)	1953
Supervisor, Alton, Morris F. Carr, M.S. (Illinois)	1958
Supervisor, East St. Louis, Lloyd E. Hubert, B.S. (Southern Illinois)	1959
Division Chief, Accounting and Purchasing, William V. Connell, B.S. (Illinois)	1954-57; 1959
Division Chief, Personnel, Gene C. Turner, M.S. (Southern Illinois)	1958
Supervisor of Auxiliary and Service Enterprises Carl E. Alford, B.A. (Southern Illinois)	1959

Instructional Units

THIS SECTION provides a brief description of the purposes and programs of the University's instructional units. The units are arranged according to their location within the University. Those units having general university application are listed first, followed by those located on the Carbondale campus, and then the Edwardsville campuses.

A complete description of the programs of the Department of Nursing and the Air Force Reserve Officers Training Corps, located on the Carbondale campus, is presented in this bulletin because those two units do not have separate bulletins.

ALL-UNIVERSITY UNITS

THE GRADUATE SCHOOL

Accounting; Agricultural Industries; Animal Industries; Anthropology;¹ Art; Biological Sciences; Botany;¹ Chemistry;² College Student Personnel; Community Development; Design; Economics;¹ Educational Administration; Educational Administration and Supervision;¹ Elementary Education;¹ English;¹ Forestry; French; Geography;² Geology; German; Government;¹ Guidance and Counseling;¹ Health Education;¹ Higher Education;¹ History; Home Economics;³ Industrial Education; Instructional Materials; Instructional Supervision; Inter-American Studies; Journalism;² Kindergarten-Primary Education; Latin; Management; Marketing; Mathematics;

¹ Applications for the Doctor of Philosophy degree are now accepted in these fields.

² Applications for the Doctor of Philosophy degree will be accepted for the 1962 fall quarter.

³ The Doctor of Philosophy program is now being prepared in Home Economics.

*Microbiology;*¹ *Music;* *Philosophy;*² *Physical Education;*¹
Physical Sciences; *Physics;* *Physiology;*¹ *Plant Industries;*
*Psychology;*¹ *Recreation and Outdoor Education;* *Rehabilitation*
Administration; *Rehabilitation Counseling;* *Secondary Education;*¹
Secretarial and Business Education; *Social Studies;* *Sociology;*¹
Spanish; *Special Education;* *Speech;*¹ *Speech Correction;*¹
Theater; *Transportation;* *Zoology*¹

The purpose of the Graduate School is to make available to advanced students courses and other work which will increase their competencies in particular fields. Development of the power of independent investigation is especially sought. The association of mature and beginning scholars is an important aspect of graduate work and is encouraged. The Graduate School seeks to stimulate scholarly activity and research among the staff, in order to maintain the proper atmosphere for graduate instruction.

From 1944 until 1948, work could be taken toward the Master of Science in Education degree. During the latter year, the University was authorized to confer the Master of Arts and Master of Science degrees, and in 1952 the Master of Fine Arts degree was added. In 1953 a Sixth-Year Program of graduate work was authorized by the Board of Trustees, consisting of work beyond the master's degree. The Sixth-Year Program does not result in a degree but in a Specialist's Certificate, and is intended to be a terminal course, not one leading to more advanced graduate work. In 1956 the Master of Music and Master of Music Education degrees were authorized by the Board of Trustees.

In 1955 the board approved the Doctor of Philosophy degree. The first earned doctorate was awarded by the University in 1959 in the field of speech correction.

Graduate fellowships and assistantships are available to qualified graduate students. These positions pay from \$100 to \$250 per month on a half-time basis, with remuneration depending on the nature and responsibilities of the appointment in each case. Persons wishing to apply for graduate fellowships, which require no more than ten hours of work per week, should apply directly to the Graduate Office, in person or by written inquiry. Those wishing to apply for assistantships should inquire in the department of their major interest. In so doing, they must also make formal application to the Graduate School as outlined in the paragraph below, in addition to furnishing the department with the credentials it requires.

¹ Applications for the Doctor of Philosophy degree are now accepted in these fields of study.

² Applications for the Doctor of Philosophy degree will be accepted for the 1962 fall quarter.

Normally, the assistantship requires twenty hours of work each week. Both fellowships and assistantships carry remission of the tuition charge. There are certain other fees which are not remitted. There are also tuition scholarships available to qualified students through application to the dean of the Graduate School.

Students who wish to enter the Graduate School must first make formal application to the Admissions Office. Also they should ordinarily discuss the prospect of obtaining the courses they wish to take, or other work they wish to do, with the chairmen of major departments, since admission to the Graduate School does not automatically guarantee admission to a particular major.

Inquiries about graduate work should be directed to the Dean, Graduate School, Southern Illinois University, Carbondale, Illinois, or to the Graduate Office, Southern Illinois University, Edwardsville, Illinois.

DIVISION OF UNIVERSITY EXTENSION

Dean Raymond H. Dey, Ed.D. (Washington University)	1946
Associate Dean Ernest J. Simon, M.S. (Illinois)	1950
Assistant Dean Benson B. Poirier, Ed.D. (Wyoming)	1958
Field Representative Jess Wilbur Turnbow, B.A. (Greenville)	1955

The purpose of the Division of University Extension is to make university credit courses available to people who are not in residence. It calls upon the various instructional agencies of the University for the personnel used to carry out its program.

Southern Illinois University is a member of the National University Extension Association and meets the standards of this association.

Inquiries concerning the programs and services of the Division of University Extension should be directed to the Dean, Division of University Extension, Southern Illinois University, Carbondale, Illinois.

EXTENSION CREDIT CLASSES

Scheduling off-campus college credit classes is a chief function of the Division of University Extension. The program was originally designed for public school teachers and administrators. It has been expanded, however, to serve many other groups. A class is now scheduled whenever fifteen or more qualified people indicate their intention of enrolling in it, provided that a staff member for that particular subject is available at that time.

A maximum of one-half of the total number of credits required for the bachelor's degree, or ninety-six hours, may be earned through extension classes, and up to sixteen hours for the master's degree.

Many courses that are offered in residence are also regularly offered through extension, and, when satisfactorily completed, are ordinarily given the same credit as residence work. All instructors of these extension courses are members of the regular university faculty, and the work offered meets all of the requirements of the American Association of Colleges for Teacher Education and the North Central Association of Colleges and Secondary Schools.

CONFERENCES, SHORT COURSES, AND TOURING THEATER

The Division of University Extension assists any campus department in planning and carrying out conferences and workshops, whether they be scheduled on or off campus.

Last year more than 200 events of this nature were held on the Carbondale campus with a total attendance approximating 35,000 persons. In co-operation with the Department of Theater the division has for the last four springs arranged for a touring theater to present plays in area communities. In the fall of 1960, plays were presented in twenty-two communities. The theater is self-supporting, with area organizations sponsoring the plays and earning funds for local civic projects.

The division also provides a County Institute Service for specialized faculty groups and for teacher groups in general. The programs vary in length from one hour to two days and are sometimes given as workshops for teachers before school opens in the fall.

DIVISION OF TECHNICAL AND ADULT EDUCATION

The Division of Technical and Adult Education serves adults and high school graduates interested in obtaining a college-level program of instruction of a shorter duration than the usual four-year college program, qualifying them for employment at the semiprofessional and technical level in industry and business.

VOCATIONAL-TECHNICAL INSTITUTE

The Vocational-Technical Institute, located on the Southern Acres campus near Carbondale, provides for high school graduates one- and two-year college-level terminal programs for training technicians. These programs are designed to prepare men and women to fill the positions in business and industry between the skilled worker and the engineer or professional man.

Associate in Technology Programs

The two-year associate degree programs in technology are designed to

give students broad foundations in special subjects in the technical field, together with sufficient knowledge of theoretical principles. Courses in general education are included to promote an understanding of problems encountered in living and working in the community.

Graduates are qualified for such positions as estimators, servicemen, factory representatives, technical assistants, draftsmen, engineering aids, commercial artists, and technicians in the fields of electronics, radio and television, building construction, dental laboratory work, industrial wood-working, machine tools and design, printing, automotive mechanics, and drafting and design.

The courses are taught by instructors who have had industrial experience in their respective fields. The laboratories and shops are equipped with modern instruments and machines comparable to those used in industry and reflecting the needs in technical employment. These associate programs in technology are six quarters in length and require a minimum of 104 to 110 hours of credit for graduation.

Associate in Business Programs

Two-year curricula in business are programs to prepare graduates for office or retailing occupations. Completion of any of these programs leads to an Associate in Business degree. In addition to skill training, related and general education courses are required which provide the student with background information as a basis for occupational advancement.

Curricula in business for office occupations are designed to prepare students for the initial job in accounting or as executive, legal, or medical secretaries.

The curriculum in business for merchandising lends particular emphasis to buying and selling. This program of study is made up of on-campus instruction and of college credit work experience in selected merchandising establishments.

One-Year Certificate Programs

One-year programs are available in the fields of cosmetology (beauty culture), practical nursing, welding, bookkeeping-clerical, stenographic, and calculating machines.

A graduate of the cosmetology program is eligible for the state examination which must be passed to obtain a license as a beautician in Illinois.

A graduate of the practical nursing program is eligible for the state examination which must be passed to obtain a license as a practical nurse.

Inquiries concerning the programs of the Vocational-Technical Institute should be directed to the Dean, Division of Technical and Adult Education, Southern Illinois University, Carbondale, Illinois.

ADULT EDUCATION

The Adult Education program consists of noncredit courses in various vocational, technical, and general education fields designed to provide a wide variety of educational opportunities for adults.

Most courses range in length from eight to twelve weeks, two or three hours weekly. Certain special courses are offered for sixteen to twenty-four weeks. These tailor-made courses are varied to meet the interests and needs of the adults served. Courses are designed to assist adults to improve existing skills or to gain new skills and technical knowledge for advancement to better positions. Courses have been given for plumbers, carpenters, bricklayers, construction foremen, machinists, retail and office workers, nurses, bankers, insurance brokers, union business agents, welders, sales personnel, secretaries, accountants, office clerks, and farmers. The Adult Education program also includes many intensive short courses during each year. Among these are kiln-drying courses for hardwood lumbermen; a two-week cosmetology course; a series of one-week courses for rural electrification linemen and office managers; chartered life underwriters, chartered property, and casualty insurance specialized courses, and Illinois Bankers' School for the development of junior executives.

Adult education programs consisting of a series of courses geared to the needs of particular groups are also available. An example is the two-year industrial management program in East St. Louis, Granite City, and Alton areas, in co-operation with East Side Manufacturer's Association, Greater Alton Industries, and East St. Louis Manufacturer's Association.

The adult education courses are taught by regular staff members obtained from every division and school of the University, as well as carefully selected specialists from the ranks of business, industry, and the professions.

Inquiries concerning the programs and services of Adult Education should be directed to the Assistant Dean, Division of Technical and Adult Education, Southern Illinois University, Carbondale, Illinois.

COMMUNITY DEVELOPMENT INSTITUTE

The Community Development Institute has been established for students seeking training in work with individuals and groups striving to develop a more satisfactory life within the community setting. The institute's purposes also include training of adults concerned with improving their community leadership, and co-operating with departments of the University and other agencies in research undertakings to investigate community processes and social change.

Students do not ordinarily enroll in the institute while they are freshmen because none of the specifically designed community development courses are open to freshmen. However, it is well for a student interested in this program to discuss his plans with the director and to develop his comprehensive program as early as possible in his college career. Accent is placed on sequences of study to meet the academic needs of individuals.

Inquiries about the institute's program should be addressed to the Director, Community Development Institute, Southern Illinois University, Carbondale, Illinois.

TRANSPORTATION INSTITUTE

The Transportation Institute was established on July 1, 1960, to help meet the increasing need for specially educated men and women in the transportation industry. With all four major modes of transport experiencing revolutionary developments in operation and organization, the transportation industry, so vital to the economy and security of the nation, holds exceptional opportunities for career-minded students. To this end, the Transportation Institute, in co-operation with other agencies of the University, will arrange for special graduate, undergraduate, and adult education courses in transportation.

Inquiries concerning the programs and services of the institute should be addressed to the Director, Transportation Institute, Southern Illinois University, Carbondale, Illinois.

CARBONDALE UNITS

COLLEGE OF LIBERAL ARTS AND SCIENCES

Anthropology; Botany; Chemistry; English; Foreign Languages; Geography; Geology; Government; History; Mathematics; Microbiology; Philosophy; Physics and Astronomy; Physiology; Psychology; Sociology; Zoology

The College of Liberal Arts and Sciences serves the students of Southern Illinois University at Carbondale in many capacities. Its course offerings provide (1) basic subject matter for the general studies program; (2) opportunity for concentration in a major in any one of the seventeen academic departments administered by the college; (3) electives not available in other instructional units of the University; (4) extension and adult education offered through the appropriate divisions; (5) graduate level instruc-

tion for students pursuing higher degrees than the baccalaureate; (6) pre-professional training needed for admission to such specialized schools as law, medicine, and dentistry.

The diversified offerings of the College of Liberal Arts and Sciences are designed to help the student achieve a balanced personality, an awareness of the cultures of the past, an appreciation of his fellow man, and a fundamental understanding of the ever-changing physical, social, and political environment in which he lives. A student in the college may prepare for teaching at the secondary level by including in his studies certain professional courses offered by the College of Education. The Bachelor of Arts or Bachelor of Science degree is granted to a student who fulfills requirements for graduation from the College of Liberal Arts and Sciences.

High school students planning to enroll in the college should consult their counselors regarding their course of study. In general, high school students should include in their program of study: four units of English, three to four units of mathematics with a minimum of one and one-half units of algebra and one unit of plane geometry, one unit of physics or chemistry, and two units of a foreign language with Latin preferred.

Admission to the College of Liberal Arts and Sciences should be initiated through the Admissions Office. Inquiries concerning further information about the programs of the college should be directed to the Dean, College of Liberal Arts and Sciences, Southern Illinois University, Carbondale, Illinois.

THE SOCIAL STUDIES

The social studies departments of the College of Liberal Arts and Sciences offer courses designed to enable the student to achieve an understanding and appreciation of civilization viewed in historical perspective and thereby to equip him for participation in the duties and responsibilities of citizenship. His studies will provide him with a better understanding of the nature and variety of religions, social organizations, and technologies and give him insight and understandings which will enable him to live more constructively with others in his family, community, and nation.

THE SCIENCES

The earth, physical, and biological science departments contribute to the liberal education of all students, whether their principal intellectual interests are in these disciplines or in other areas of specialization. The methodologies of the disciplines help the student develop habits of orderly thinking. A knowledge of science also equips him to understand the worlds of nature, technology, and industrial processes.

THE HUMANITIES

A student in the humanities is expected to attain proficiency in language, to develop an understanding and appreciation of literature, and to recognize its civilizing values. The works, men, and intellectual movements that make up literary history are examined. The basic and persistent human problems are identified, and their classic and current solutions are studied. A critical evaluation of mankind's moral, aesthetic, and religious values is made in their historical and contemporary settings.

PREPROFESSIONAL PROGRAMS

The college offers preprofessional programs for students training for careers in the following professions: dentistry, law, medicine, medical technology, occupational therapy, pharmacy, physical therapy, public health, theology, and veterinary science.

COLLEGE OF EDUCATION

Educational Administration and Supervision; Elementary Education; Guidance; Health Education; Higher Education; Instructional Materials; Physical Education for Men; Physical Education for Women; Recreation and Outdoor Education; Secondary Education; Special Education; Student Teaching; University School

The College of Education is committed to giving professional training to teachers of all subjects taught in the public schools and to supervisors, administrators, and specialists. The preparation of teachers for all grades from kindergarten through high school is the special function of the college. In its graduate offerings, however, it broadens its efforts to include professional work for prospective college teachers and several specializations in school administration and supervision. For most undergraduate students preparing to teach in high schools, the subject matter majors will be taken in the other colleges and schools of the University, and the professional preparation for teaching, including the student teaching, will be taken in the College of Education.

At Southern a high school graduate looking for a career in the educational world can prepare for high school, elementary, or kindergarten-primary teaching; for coaching; for positions in school administration; for guidance work; for teaching and supervising special education; and for other community services. He can prepare to teach in special fields such as art, music, home economics, industrial education, business, and agriculture. He can prepare to be a teacher of science, social studies, English, and

mathematics. He can get a teaching specialization in specialized fields such as speech correction and general speech. He can dedicate himself, if he wishes, to the teaching of mentally handicapped children, the hard of hearing, or the partially sighted. Physical education as a field attracts many able men and women, as do such newer fields as recreation and outdoor education. The graduate may look for a career in health education or in school counseling. He may prepare to be a principal or a superintendent by going on with graduate work, or even to be a teacher of teachers in some college or university. The College of Education grants the Bachelor of Science in Education and the Bachelor of Music Education degrees.

The Teacher Training Division offers the student teaching for teachers in all departments. An important part of the division is the University School, where potential teachers observe good teaching, make studies, and obtain practice. The division also has arrangements for student teaching under careful supervision in a number of public schools in Southern Illinois.

Students who wish to become principals or supervisors in the public schools take graduate work in the Department of Educational Administration and Supervision. The department's major emphasis is on graduate work, but it also participates in providing background for elementary and high school teachers.

Admission to the College of Education should be initiated through the Admissions Office. Inquiries concerning the programs of the college should be directed to the Dean, College of Education, Southern Illinois University, Carbondale, Illinois.

SCHOOL OF AGRICULTURE

Agricultural Industries; Animal Industries; Forestry; Plant Industries

The School of Agriculture has three primary functions: teaching, educational service, and research. The option of agricultural science is available in both animal and plant industries with the option of agricultural business offered in agricultural industries. In addition, the school offers curricula in general agriculture and vocational agricultural education. The programs of study offered by the School of Agriculture lead to a Bachelor of Science in Agriculture degree. In addition to adequate classrooms and well-equipped laboratories, there are agronomy, beef, dairy, horticulture, poultry, sheep, and swine centers where students may observe the latest developments in these technical areas. Test farms are operated to demonstrate the effectiveness of various programs and to serve as farm management laboratories.

Much of the work on approximately 1,800 acres of farm land is done by student workers, who are thereby enabled to pay part of their college expenses, as well as to obtain practical and educational experience in agriculture.

The Department of Agricultural Industries provides instruction, research, demonstration, and consultation in the fields of agricultural economics, agricultural education, and agricultural engineering.

The Department of Animal Industries provides instruction, research, demonstration, and consultation in those phases of agriculture and industry dealing with livestock, dairying, and poultry production.

Students interested in veterinary medicine or dairy technology may obtain two years of training in this department before entering a professional school to complete their preparation.

The Department of Forestry provides instruction, research, and consultation in the fields of forest production and utilization. The department offers a four-year curriculum leading to a Bachelor of Science degree.

The Department of Plant Industries provides instruction, research, demonstration, and consultation in those phases of agriculture dealing primarily with the production of plants, their preservation and use, and the soils in which they grow.

Depending upon the interests of the student, preparation may be obtained in a wide range of agricultural fields from general farming to intensive specialization; from commercial sales and consultation to preparation for advanced study, research, and teaching.

Admission to the School of Agriculture should be initiated through the Admissions Office. Inquiries concerning further information about the programs of the school should be directed to the Dean, School of Agriculture, Southern Illinois University, Carbondale, Illinois.

SCHOOL OF BUSINESS

*Accounting; Economics; Management; Marketing;
Secretarial and Business Education*

Although the School of Business will accept graduates from any recognized high school, it recommends that these students include in their high school program at least three units of English, two of mathematics, two of science, and two of social studies.

The School of Business grants the Bachelor of Science degree. The school is composed of the following five departments: Accounting, Economics, Management, Marketing, and Secretarial and Business Education. Each of these specializations aims to prepare the student for successful per-

formance in the business world. The programs develop not only a knowledge of the operational methods of business and a familiarity with the sources of information and methods of collecting and interpreting data but also an understanding of, and a skill in, the art of human relations plus a high sense of integrity and responsibility.

Students who fulfill both the general university requirements and the requirements of their major department can normally expect to earn the Bachelor of Science degree in four years. Students may, if they wish, choose a minor field of specialization. Groupings of courses constituting a minor specialization are provided not only for students in this school but also in other schools and colleges of the University. Students in the School of Business are required to take at least 40 per cent of the graduation requirement of 192 hours within the school and 40 per cent in general education courses outside of the school.

Proficiency in the written and spoken language is required. To evidence this the student is required to take and pass an English proficiency examination before the end of his sophomore year.

Admission to the School of Business should be initiated through the Admissions Office. Inquiries concerning further information about the programs of the school should be directed to the Dean, School of Business, Southern Illinois University, Carbondale, Illinois.

SCHOOL OF COMMUNICATIONS

Journalism; Printing and Photography; Radio-Television; Speech; Speech Correction; Theater

The School of Communications is set up to allow the students of the University to specialize in the study of the various mass communications media and to develop skills in the utilization of those media.

The School of Communications also is interested in research work in the various aspects of mass communications, and in making consulting and other services available to area schools, newspapers, radio and television stations.

The Department of Journalism offers professional training in news and editorial writing as well as in more specialized types of writing, community newspaper management, advertising, printing, and photography. Practical experience is available through supervised work on campus publications and through the co-operation of area publications.

The Department of Printing and Photography offers a four-year curriculum for a major in printing management and a four-year curriculum for a major in general photography.

The printing management curriculum includes courses designed to

provide background training for students in such other fields as journalism and industrial education. Students majoring in printing management are required to take certain courses in the School of Business.

The major sequence in general photography includes independent sequences in cinematography and publications photography.

The Department of Radio-Television offers a curriculum in electronic mass communications. Training is designed for those who will work in commercial and educational radio and television stations and in closely related businesses on a full-time professional basis; for those who will work on a part-time basis in such areas as religion, public relations and promotion, and education; and for those who will be interested in radio and television only as members of the audience. Major areas of instruction are station management, programming, production and direction, writing, announcing, analysis of programs and audiences, and research in all phases of radio and television. Actual experience is provided in the University's Broadcasting Service and professionally equipped FM radio station, in the University's developing television operations, and in area radio and television stations.

The Department of Speech offers general work in public speaking, oral interpretation, speech education, and the general speech training of students in other areas of specialization in the University.

The Department of Speech Correction offers specialized training (1) for people wishing to be certified as speech correctionists by the state of Illinois; (2) for classroom teachers who need to be able to work with minor speech defects and to know the referral agencies which may be used to help the more severe cases; and (3) for more highly specialized persons to work in colleges, universities, hospitals, and private clinics.

The Department of Theater offers complete preparation for participation in theater activity of every kind. Courses are offered for students who expect to participate in community theater activity either as a vocation or as an avocation; teachers in educational theaters whether at the elementary, secondary, or college and university level; and the occasional very gifted student who wishes to prepare for professional theater.

Admission to the School of Communications should be initiated through the Admissions Office. Inquiries concerning additional information about the programs of the school should be directed to the Dean, School of Communications, Southern Illinois University, Carbondale, Illinois.

SCHOOL OF FINE ARTS

Art; Music; Design

The School of Fine Arts serves as an instrument of the University for

the direction of training and the stimulation of creative and professional work in the fine arts. It provides service work for the other colleges, divisions, schools, and departments of the University. It also makes every reasonable effort to take care of the needs of students, other than art, design, and music majors, who want an experience in the fine arts for either cultural or practical reasons. It offers not only undergraduate work but also graduate work leading to the master's degree.

The School of Fine Arts sponsors a number of special events each year. A Fine Arts Festival, which lasts several weeks, includes lectures by noted artists, musical ensembles, individual performances, dance recitals, dramatic presentations, and art exhibitions.

A continuous program of art exhibitions is presented as a part of the educational process for students in the School of Fine Arts and as a service to the University, the community, and the area. Music Department facilities and courses serve the university community through special courses for non-music majors and through an intensive series of public music programs available at no cost to university students and faculty members.

The Department of Art offers the Bachelor of Science in Education degree in the College of Education with a major in art for those students who wish to prepare themselves for positions in primary and secondary school teaching. The Bachelor of Arts degree in the College of Liberal Arts and Sciences, with a major in art, is for students who wish to broaden their cultural perspective or who, by continuing with graduate work, are interested in teaching art history in colleges and universities. The Bachelor of Arts degree for students in the School of Fine Arts is offered for those who wish to prepare for professional careers in the various programs indicated above.

The Department of Design offers programs in visual design and product-shelter design.

The undergraduate degree in both visual and product-shelter design is a Bachelor of Arts degree in the School of Fine Arts. The undergraduate program is a four-year course designed to integrate the arts, sciences, and humanities with the design activity.

The Department of Music is an institutional member of the National Association of Schools of Music. It offers courses and curricula in music theory and composition, music history and literature, applied music, music education, church music, and recreational music.

The Bachelor of Music degree is offered for those students who wish to prepare for careers as professional performers and studio teachers, or who desire preparation for the Master of Music degree.

For students in the College of Education, the Department of Music offers courses leading to the Bachelor of Music Education degree. The

curriculum offers a wide variety of musical experiences designed to prepare candidates for primary and secondary school teaching. In co-operation with the Department of Recreation and Outdoor Education, a series of courses is offered to prepare the specialist in recreational music.

The Bachelor of Arts degree with a major in music is available to students in the College of Liberal Arts and Sciences who wish to broaden their cultural perspective through this medium.

Admission to the School of Fine Arts should be initiated through the Admissions Office. Inquiries concerning further information about the programs of the school should be directed to the Dean, School of Fine Arts, Southern Illinois University, Carbondale, Illinois.

SCHOOL OF HOME ECONOMICS

*Clothing and Textiles; Food and Nutrition; Home and Family;
Home Economics Education*

The major objectives of the School of Home Economics are to provide instruction, to stimulate research, to provide service work in home economics for other educational units desiring it, and to give to the people in the area service which will help in improving the understandings and practices in their families and homes.

Students in the School of Home Economics may follow curricula leading to the Bachelor of Science degree. A brief description of these curricula follows.

The apparel design curriculum is planned for students whose major interests and abilities are in clothing design and construction. It gives preparation for apparel designing or allied positions in the wholesale or retail fields of fashion by giving fundamental training in creative designing, draping, and clothing construction.

The clothing and textiles merchandising curriculum provides fundamental training for positions as salespeople, buyers, or department managers with retail stores, custom shops, and manufacturers that are dealing with apparel, textiles, and furnishings. It includes professional courses in retailing, accounting, marketing, advertising, journalism, and field experience as well as fundamental courses in clothing, textiles, and home furnishings.

The dietetics curriculum is designed to give technical education to those interested in becoming dietitians in hospitals, college dormitories, industrial plants, health clinics, laboratories, or public health and welfare organizations. The suggested curriculum meets the requirements of the American Dietetics Association.

The foods in business curriculum is planned for those students who

desire to enter the business field as home service representatives for utility companies; as demonstrators for manufacturers; or as educational, experimental, and promotional workers with household equipment and foods.

The interior decorating curriculum offers fundamental training in this field. It is designed for students interested in positions on interior decorating staffs of department stores, in consulting capacities in allied fields, and in establishing interior decorating businesses. The curriculum includes courses in art and art history, business, and clothing and textiles.

The home advisers curriculum prepares students for positions as home advisers, 4-H Club agents, and, with further training, extension specialists.

For students in the College of Education a curriculum leading to the Bachelor of Science in Education degree is planned to meet the needs of students desiring to teach home economics in school departments maintained according to the provisions of the federal vocational acts. A Vocational Home Economics Certificate requires a bachelor's degree in home economics from an institution and in a curriculum approved for teacher training by the Vocational Division of the United States Office of Education and by the State Board for Vocational Education. Southern Illinois University is so approved for training teachers of home economics.

Students in the College of Liberal Arts and Sciences may major in home economics. The curriculum for these students is planned for the profession of homemaking rather than for any of the salary-earning professional careers in home economics. This major allows time for specialization in a second field.

Admission to the School of Home Economics should be initiated through the Admissions Office. Inquiries concerning further information about the programs of the school should be directed to the Dean, School of Home Economics, Southern Illinois University, Carbondale, Illinois.

SCHOOL OF TECHNOLOGY

Applied Science; Industrial Education

The School of Technology was established July 1, 1961, and includes the Department of Applied Science and the Department of Industrial Education.

The Department of Applied Science offers a complete course of study leading to the Bachelor of Science degree with a major in applied science. The first two years follow the requirements of many leading engineering schools, and the third and fourth years provide a general program in applied science. The degree is comparable to a general engineering degree.

The Department of Industrial Education serves (1) students interested

in teaching or supervising industrial education in the public schools, (2) students who plan to seek supervisory or teaching positions in industry, and (3) students interested in becoming manual arts therapists.

A student interested in teaching should plan to major in either industrial arts or trades and industries. One interested in industrial supervision and training within industry should plan to major in industrial supervision. A student interested in becoming a manual arts therapist should plan to major in manual arts therapy. The four-year specialization in manual arts therapy is in line with the United States Civil Service Commission's announcement No. 81B, *Manual Arts Therapist*, issued November 13, 1956.

Admission to the School of Technology should be initiated through the Admissions Office. Inquiries concerning further information about the programs of the school should be directed to the Dean, School of Technology, Southern Illinois University, Carbondale, Illinois.

DEPARTMENT OF NURSING

The Department of Nursing was established by the Board of Trustees in 1953 to help meet the health needs of the people in southern Illinois. Classes for registered nurses were first offered in the spring of 1956, and the first class of students in the basic professional program was admitted in 1957. The first Bachelor of Science degree in nursing, granted to a student in the supplemental program, was awarded at the summer session commencement in 1958.

Details concerning this department and its programs appear in this bulletin beginning on page 111.

LABOR INSTITUTE

The function of the Labor Institute is to promote harmony and co-operation between labor and management by encouraging the training of students and others interested in labor and industrial relations and to provide advice on the technical aspects of labor and industrial relations to labor, to industry, and to the public. This program will be carried out through the conducting of research and special surveys which may be of use to labor and industry in southern Illinois, through the use of various specialists in the several departments of the University providing courses of instruction for students entering industry and labor, and through the establishing of appropriate special courses for personnel of industrial concerns and for the membership of various labor groups within the area.

Inquiries about the institute's program should be addressed to the Director, Labor Institute, Southern Illinois University, Carbondale, Illinois.

LATIN AMERICAN INSTITUTE

In order to provide a special program of study for the student interested in Latin America, Southern Illinois University offers an undergraduate major in Latin American studies leading to the Bachelor of Arts degree.

This course of studies is designed to meet the need for increasing concern with Latin America and the growing interest in the field. It is planned to provide students with a wide general background in the history, geography, economics, languages, and literature of Hispanic America. Special emphasis is placed upon achievement of sufficient knowledge of, and skill in, the use of the Spanish language to make it an effective means of communication. This level of linguistic skill is essential to open the doors of cultural understanding and appreciation of Latin America to non-Spanish-speaking students. Equal proficiency in Portuguese for those who wish to specialize in Brazilian studies will be sought in due course.

The inter-American studies major is planned (1) to prepare students to participate intelligently and effectively in business or government activities in Latin America or dealing with Latin America and (2) to enable students to choose a field of specialization for advanced academic work.

The institute co-ordinates the activities of the Inter-American Studies Program. Departments now offering course work in this area are Anthropology, Economics, Foreign Languages, Geography, Government, and History.

Inquiries about the institute's program should be addressed to the Director, Latin American Institute, Southern Illinois University, Carbondale, Illinois.

REHABILITATION INSTITUTE

The objectives of the Rehabilitation Institute are (1) to co-ordinate and augment training of college students and field workers interested in counseling with or arranging services for the handicapped, (2) to facilitate and develop within these professional workers responsible standards of professional conduct and ethics, (3) to conduct (and encourage other departments and individuals to engage in) basic and applied research to both general counseling and the broad area of rehabilitation, (4) to provide counseling and consultative services to both community agencies and handicapped individuals, (5) to establish liaison with community agencies and individuals for mutual facilitation and harmonious interaction, and (6) to solicit and help organize public support and responsibility for the rehabilitation of handicapped individuals.

The institute's instructional program is divided into five general areas. The rehabilitation counselor training program consists of a minimum of seventy-two hours (two years) of graduate study leading to the master's degree in rehabilitation counseling. A limited number of traineeships are provided through a grant from the federal Office of Vocational Rehabilitation. For students who are not interested in professional competency in the areas of counseling and testing, a forty-eight hour (one year) graduate program leading to a Master of Science degree in rehabilitation administration is available. The institute also conducts a six-week training course for professional workers with the blind. This federally sponsored course, offered three times a year, instructs workers in the methods of developing employment opportunities for the blind in competitive occupations. Since 1953, a two-week short course in the *Process of Rehabilitation* has been held for rehabilitation personnel. Five state and five private welfare agencies join with the Rehabilitation Institute in sponsoring this course. The institute holds a number of in-service and community education programs throughout the year. These functions are carried out through a program of instruction which co-ordinates the efforts of departments within the University in the developing of rehabilitation counseling curricula, through consultant services to community agencies in the general area of rehabilitation, and through theoretical and practical research bearing on the methods and techniques of rehabilitating the handicapped.

Inquiries about the institute's program should be addressed to the Director, Rehabilitation Institute, Southern Illinois University, Carbondale, Illinois.

SMALL BUSINESS INSTITUTE

The primary objective of the Small Business Institute is to develop executives for small businesses, rather than to create specialists in a single field such as accounting, finance, sales, etc. Management of a smaller business requires more all-around "know-how." While concepts taught are those of modern big business, the applications are directed to small business operations.

Many of the institute's students are training to enter enterprises owned by their parents or relatives; others are planning to start businesses of their own; some prefer to work for small companies. Students are required to designate the kind of business they plan to enter; e.g., a department store, a truck line, a resort, etc., preferably by the end of their sophomore year. This early decision allows adequate time for course selection and work programming.

Graduates from this four-year program receive a Bachelor of Science

degree with a major in small business management. Inquiries concerning the institute's program should be addressed to the Director, Small Business Institute, Southern Illinois University, Carbondale, Illinois.

CENTER FOR THE STUDY OF DELINQUENCY, CRIME, AND CORRECTIONS

This center, which has associates on both major campuses, has these principal purposes: (1) training college students and others interested in careers in the various phases of corrections and crime control, (2) providing facilities for regional and national conferences and institutes for those engaged in the processes of the administration of criminal justice, (3) conducting pertinent theoretical and applied research in the fields of delinquency, crime, and corrections, and (4) providing expert services of an advisory nature for those agencies needing and requesting relevant assistance.

The center's formal instructional program is integrated with that of several departments and divisions of the University to such an extent that the degrees offered are in the name of specific departments. In addition, the center offers specialized workshops and in-service educational programs.

Inquiries about the center's functions and programs should be addressed to the Director, Center for the Study of Delinquency, Crime, and Corrections, Southern Illinois University, Carbondale, Illinois.

AIR FORCE RESERVE OFFICERS TRAINING CORPS

The Air Force Reserve Officers Training Corps detachment at Southern Illinois University is a (senior division) ROTC unit administered by commissioned officers of the United States Air Force. Details concerning this program begin on page 123 of this bulletin.

EDWARDSVILLE UNITS

A four-year program of undergraduate instruction is offered on the Alton and East St. Louis campuses. The administrative offices for the Alton and East St. Louis campuses are located at Edwardsville; henceforth in this bulletin the phrase *Edwardsville campuses* will be used for referring to the educational programs in Madison and St. Clair counties.

In certain fields of education, the graduate student can now obtain three-fourths of his study for the master's degree on the Edwardsville

campuses, completing the degree on the Carbondale campus. The Edwardsville campuses also offer courses leading to associate degrees and certificate programs in secretarial and business studies designed especially for evening students. Other special courses and much of the regular college program are scheduled in the late afternoon, in the evening, and on Saturday.

The academic organization of the Edwardsville campuses comprises six divisions of instruction with a number of major programs in each division.

Courses offered are in most cases the same as those offered on the Carbondale campus.

BUSINESS DIVISION

*Accounting; Economics; Management; Marketing;
Secretarial and Business Education*

The Business Division seeks to prepare the student for successful performance in the business world. Opportunity is provided for the student to gain a knowledge of the operational phases of business and a familiarity with the sources of information and methods of collecting and interpreting data. The programs seek to develop in the student an understanding of, and a skill in, the art of human relations and a high sense of integrity and responsibility.

Inquiries requesting additional information concerning the educational programs of the Business Division should be directed to the Registrar's Office, Southern Illinois University, Edwardsville, Illinois.

EDUCATION DIVISION

*Administration and Supervision; Elementary Education; Guidance;
Health and Physical Education; Industrial Education; Instructional
Materials; Psychology; Secondary Education; Special
Education; Student Teaching*

The Education Division prepares teachers for all grades from kindergarten through high school and provides basic training in the fields of psychology and guidance. The division is committed to giving professional training to teachers, supervisors, administrators, and specialists. In its current offerings it broadens its efforts to include provisional work in several specialties in school administration and supervision. For most undergraduate students preparing to teach in high school, the subject matter majors

will be taken in other divisions, and the provisional preparation for teaching, including student teaching, will be taken in the Education Division.

Inquiries requesting additional information concerning the educational programs of the Education Division should be directed to the Registrar's Office, Southern Illinois University, Edwardsville, Illinois.

FINE ARTS DIVISION

Art; Music; Speech and Theater

The Fine Arts Division serves as an instrument of the University for the stimulation of creative and professional work in art, music, speech, and drama. Students are provided every opportunity to develop artistic talents. The division provides service courses and activities for all students who want experience in the fine arts fields either for a general cultural background or for practical reasons.

Inquiries requesting additional information concerning the educational programs of the Humanities Division should be directed to the Registrar's Office, Southern Illinois University, Edwardsville, Illinois.

HUMANITIES DIVISION

English; Foreign Languages; Journalism; Philosophy

The Humanities Division provides instruction in the intellectual disciplines of English and other languages, of literature, and of ideas. The division is concerned with instruction in the reading, writing, and speaking of English and other languages, the development of an understanding and appreciation of literature, and the concomitant recognition of its civilizing values. The division guides advanced students in methods of studying the works, men, and movements that make up literary and intellectual history. All students are encouraged to think and to write rationally, imaginatively, and responsibly as they learn to identify persistent human problems and their classic and current solutions.

Inquiries requesting additional information concerning the educational programs of the Humanities Division should be directed to the Registrar's Office, Southern Illinois University, Edwardsville, Illinois.

SCIENCE AND TECHNOLOGY DIVISION

Applied Science and Pre-Engineering; Botany; Chemistry; Mathematics; Physics and Astronomy; Zoology and Physiology

The Science and Technology Division contributes to the general education of all students by offering basic courses in mathematics and the physical and life sciences. The division provides a basic program in applied science and pre-engineering. For more advanced students the division seeks to develop an understanding of methods and disciplines that will help equip the student to make a living in areas embracing nature, technology, and industrial processes.

The Science and Technology Division offers curricula leading to the Bachelor of Arts degree and the Bachelor of Science in Education degree.

Inquiries requesting additional information concerning the educational programs of the Science and Technology Division should be directed to the Registrar's Office, Southern Illinois University, Edwardsville, Illinois.

SOCIAL SCIENCES DIVISION

Geography; Government; History; Sociology and Anthropology

The Social Sciences Division offers courses designed to enable the student to achieve an understanding and appreciation of civilization viewed in historical perspective, and thereby equip him for participation in the duties and responsibilities of citizenship. His studies give him insights and understandings which enable him to live more constructively with others in his family, community, and nation and provide him with a better understanding of social organizations, technologies, and the nature and variety of spiritual beliefs.

Inquiries requesting additional information concerning the educational programs of the Social Sciences Division should be directed to the Registrar's Office, Southern Illinois University, Edwardsville, Illinois.

PREPROFESSIONAL PROGRAMS

The Edwardsville campuses offer preprofessional programs for students training for careers in the following: engineering, medicine, dentistry, veterinary science, pharmacy, occupational therapy, and law. These programs are administered through the appropriate divisions.

Students working toward the Bachelor of Science in Agriculture degree may attend the Edwardsville campuses their freshman year and transfer to the Carbondale campus for the completion of the degree. In preparing for one of the agricultural professions, the student should follow closely the appropriate curriculum as suggested in the School of Agriculture bulletin.

Students working toward a Bachelor of Science degree in home economics may attend the Edwardsville campuses their freshman and sopho-

more years and transfer to the Carbondale campus for the completion of the degree. In preparing for this degree, the student should follow closely the appropriate curriculum in the School of Home Economics bulletin.

Admission

THE STUDENT, to be permitted to attend classes at Southern Illinois University, must have completed registration, which includes admission, advisement, sectioning, and payment of fees.

Inquiries concerning admission to Southern Illinois University should be directed to the Admissions Office at Carbondale or to the Registrar's Office at Edwardsville. Applications for admission are accepted any time during the calendar year. Applications should be initiated at least thirty days in advance of the desired entrance date to permit the necessary work of processing to be completed.

Admission to Southern Illinois University constitutes admission to a particular college or instructional unit except in the case of a person who is admitted as an unclassified student. A student may also indicate the particular major field in which he is interested.

ADMISSION OF FRESHMAN STUDENTS

To be eligible for admission, a person must be either a graduate of a recognized high school, at least twenty-one years of age or a military veteran. A person who is at least twenty-one years of age but not a high school graduate is required to pass the General Educational Development Test. A military veteran who is neither a graduate of a recognized high school nor twenty-one years of age may qualify for admission by passing the G.E.D. Test.

A high school senior who ranks in the upper two-thirds of his graduating class will be admitted at the close of his seventh semester, subject to the completion of his high school work, and to maintaining his rank in the upper two-thirds of his class.

A student who has been graduated from an approved secondary school, and who ranks in the lowest third of his graduating class, will be permitted

to enter (on scholastic probation) for the summer, winter, or spring quarters only. Exception to this rule may be made for a student desiring to enter in the fall if he shows high scores on the university entrance examinations.

The above policy will apply to both in-state and out-of-state students, except that for out-of-state students all those in the lower *half* of their graduating class will be covered by the rule. This policy becomes effective with the 1961 fall quarter.

ADMISSION OF TRANSFER STUDENTS

To be considered for admission to advanced standing, a student must present a full record of his previous academic work. This record includes evidence of graduation from high school and transcripts and evidence of good standing from every college and university attended.

Admission by transfer does not necessarily mean that all credits presented for transfer will be accepted. Transferable credits are determined through evaluation at the time of presentation. In all cases, at least three-fourths of transferable credits from each institution must be "C" quality or above.

A transfer student admitted as an unclassified student will receive no transfer credit toward a degree so long as he remains in an unclassified status.

A transfer student is subject to this University's scholarship rules. A transfer student who is not in good scholastic standing under our scholarship rules can enter (on scholastic probation) the summer, winter, or spring quarters only, subject to the approval of the appropriate academic dean.

A transfer student suspended for poor scholarship or on academic probation at the last institution attended who would have been suspended under Southern's scholarship rules is not eligible for admission to Southern until at least one quarter has elapsed from the date of suspension. A transfer student dropped for any reason other than academic failure must be cleared by the Office of Student Affairs before admission will be granted.

A transfer student must take the Guidance Test Battery or submit to the Testing Service the results of such tests taken at another institution.

ADMISSION OF FOREIGN STUDENTS

Each foreign student must submit, in addition to the regular admission papers, a questionnaire for foreign students showing all previous schooling. The foreign student must also submit an official statement showing sufficient proficiency in English to do successful college work. Such

a student who becomes eligible for admission to the University and has been notified that he is eligible must deposit with the University a sum of either \$400 (Carbondale) or \$900 (Edwardsville). This is deposited to the student's account and will assure him of a reserve for necessary expenses after he arrives on the campus. The University does not assume responsibility for a student who arrives with inadequate resources.

ADMISSION OF FORMER STUDENTS

A former student of Southern not in attendance on the campus at the close of the quarter preceding application for admission must apply to the Admissions Office for re-entrance prior to registration.

A former student who is not in good standing must clear his status before the Admissions Office will prepare his registration permit. It is advisable for such a student to initiate re-entrance clearance early so that all inquiries may be answered and so that the applicant can find time to complete any requirements that may be imposed upon him.

ADMISSION OF UNCLASSIFIED STUDENTS

A person, not working toward a degree at Southern or elsewhere, who wishes to register for particular courses offered in any of the departments and divisions of the University without undertaking all of the regular plans of study may be admitted as an unclassified student. Such a student must present satisfactory evidence that he is prepared to take advantageously the work required.

Application for admission as an unclassified student should be made at the Registrar's Office. Such a student must sign a statement indicating that he is not a degree student and that credit received cannot be applied toward a degree at this University while he is enrolled as an unclassified student.

A person desiring to register for only one or two courses may do so in the Admissions Office. A person desiring to take more than this is referred to the regular academic adviser for unclassified students. A person who has already received a bachelor's degree and wishes to register as an unclassified student is referred to the Graduate School.

ADMISSION OF GRADUATE STUDENTS

Qualified students may apply for admission to the Graduate School any time during the calendar year. Application forms may be obtained from the Admissions Office on either campus. Additional information appears in the Graduate School bulletin.

Advisement and Registration

Carbondale Campuses

After a student has been admitted to the University he should talk with an adviser about his educational plans and complete his registration for the quarter he expects to enter Southern.

To insure that an undergraduate student is properly advised concerning the choice of a course of study which will fulfill the requirements of the University and prepare him for his chosen career, academic advisement has been made the special responsibility of a selected group from the teaching faculty. Each college and school of the University has a chief academic adviser and a number of assistant advisers. In addition, a corps of general advisers for the first two years will soon be organized.

On the Carbondale campus, a program of advance registration has been in operation for a number of years. The period of time from the third through the tenth week of each regular quarter and from the third through the seventh week of the summer session is used for advisement and registration for the following quarter. For example, a student who plans to attend during the winter quarter may register between the third and the tenth week, inclusive, of the fall quarter. A new student may also register on the opening day of each quarter. All students are urged to take advantage of the advance registration period.

More detailed information about the dates for advisement and registration may be obtained from the annual Schedule of Classes, a copy of which may be obtained from General Publications.

A new student must obtain an appointment for advisement and registration during any of the advance registration periods. The steps in this procedure are given below:

1. A new student should have official notification that he has been admitted to the University.

2. He should write for an appointment to register. An undergraduate student (except one who plans to enroll in the Vocational-Technical Institute) should write to the Academic Advisement Center, Southern Illinois University, Carbondale, Illinois. Included in the letter should be the date and time the student plans on coming to the campus, the academic unit in which he plans to enroll, and the name of his major subject. A student who plans to enroll in the Vocational-Technical Institute should write to the Director, Vocational-Technical Institute, Southern Illinois University, Carbondale, Illinois.

3. A graduate student should write to the Graduate School Office for an appointment.

Registration for any session of the University is contingent upon being eligible for registration. Thus, a registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the registrar by the director of the Office of Student Affairs.

Edwardsville Campuses

To insure that an undergraduate student is properly advised on a course of study which will both broaden his experience and prepare him for his chosen career, the University has made academic advisement a major concern of a chief academic adviser (at each center) and his staff and of the division heads and their staffs. Advisement for graduate students has been made the responsibility of the assistant to the dean for graduate studies. General advisers for the first two years will also be named soon.

Advisement sessions for the new freshmen are held as part of new student week each fall quarter. New transfer students should plan to meet with the adviser in their major fields prior to their initial registration; appointments can be initiated by calling the Academic Advisement Center. Several weeks before their initial registration, new graduate students should make appointments for advisement at the graduate office.

To plan his program for the succeeding quarter each student should, late every quarter, have a short conference with his major adviser. Those students not assigned to major advisers will be advised in the Academic Advisement Center.

WITHDRAWAL FROM THE UNIVERSITY

A prescribed procedure must be followed by any student desiring to withdraw from the University while the period for which he is registered is still in progress.

A student is considered officially registered after he has cleared his payment of fees at the Business Office. If a student then finds he cannot attend college or, if after attending for a period of time, he finds he cannot continue, he must report to the Office of Student Affairs to indicate official withdrawal action. *Failure to follow the official withdrawal procedure will result in academic penalty.* Withdrawal during the last two weeks of a session is allowed only under exceptional conditions.

PROGRAM CHANGES

A student is officially registered only for those courses appearing on his registration cards. Any change therefrom can be made only after fees are paid and must be made through an official program change. A student is considered officially registered after he has cleared his payment of fees at the Business Office.

A prescribed procedure must be followed by any student desiring to change his academic program while the period for which he is registered is still in progress. Failure to follow the prescribed procedure will result in academic penalty.

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program change be approved permitting registration in that class.

A program change must be made in order to drop or add a course. A student may not drop a course merely by stopping attendance. If a student desires to drop a course during the second, third, or fourth week of a quarter, the change will be approved only when the reasons appear valid. If a student desires to drop a course after the fourth week, the change will be approved only under unusual conditions. In the last three weeks of a quarter, changes will be approved only in extreme emergencies.

A program change day is listed in the registration calendar during the first week of each quarter.

The same rules will govern program changes in the eight-week summer session, except that after the third week approval will be given changes only in case of unusual conditions.

PROCEDURE FOR A PROGRAM CHANGE

A student processing a program change must complete the following procedure. No change is official until this procedure is complete.

1. The student must initiate approval for the change with his adviser.
2. The student must take the approved program change form to the Registrar's Office within twenty-four hours after approval by the adviser.
3. After having been cleared with the Registrar's Office, any program

change for which a fee is assessed must be presented to the Business Office for payment.

4. The student immediately returns the program change to the Enrollment Center in the Registrar's Office for final processing. No program change is complete until presented to the Enrollment Center.

CHANGE OF ACADEMIC MAJOR

A student desiring to change his major should do so at the time he next registers after having made his decision. A change of major within an academic unit is made with the student's academic adviser.

SCHOLASTIC PROBATION

In order to warn students when they are not meeting the graduation requirements of a "C" average, they are placed on scholastic probation.

A freshman or sophomore goes on scholastic probation at the end of the quarter in which his over-all grade points fall below the "C" average by more than fifteen points. He is restored to good standing when his over-all grade points rise again to within fifteen points of a "C" average. A freshman or sophomore on scholastic probation who does not make a "C" average for a given quarter will be dropped from his academic unit. At that time he will be referred to the Office of Student Affairs for counsel concerning future academic possibilities.

A junior or senior goes on scholastic probation at the end of any quarter in which his over-all average falls below "C." He is returned to good standing when his over-all average is again a "C" or better. A junior or senior on scholastic probation who does not make a "C" average for a given quarter will be dropped from his academic unit. At that time he will be referred to the Office of Student Affairs for counsel concerning future academic possibilities.

A student on scholastic probation who makes a "C" average or better for a given term is permitted to re-register for the next term without special permission. A student who has been dropped on the basis of the University's scholastic probation rules and who desires to be readmitted must initiate action through the Admissions Office.

In order to participate in extracurricular activities, any student on scholastic probation must submit a petition for consideration by a special committee. This request is to be filed with the co-ordinator of student activities, Office of Student Affairs.

A transfer student should note that the rules governing scholastic probation apply to his record made at Southern as well as to his over-all record. For example, a junior student who transferred in good standing

will be placed on probation if he fails to maintain a "C" average for his work at Southern Illinois University or if he fails to maintain a "C" average for his total work.

ACADEMIC LOAD

The normal class load for a student is sixteen hours, with a maximum of eighteen hours. For the eight-week summer session, the normal load is twelve hours.

A student with a 4.25 average or above for the preceding quarter may be allowed by the head of his academic unit to take as many as twenty-one hours. In no case may a student carry, or be credited with, more than twenty-one hours in any quarter. In the eight-week summer session, a load above twelve hours requires a 4.25 average and the approval of the head of the academic unit. In no case may a student carry, or be credited with, more than fourteen hours during a summer session.

A student on probation may not take more than fourteen hours. In the summer session, a student on probation may not take more than ten hours.

To be a full-time student one must carry twelve or more hours per quarter during the regular academic year and eight or more hours during the summer session. A part-time student carries fewer than twelve hours per quarter during the regular academic year and fewer than eight hours during the summer session.

A person may not register for more than eight quarter hours if he is employed full-time.

Students deferred under the classification I-S (C) or II-S must complete satisfactorily at least forty-eight hours (forty-five hours for freshmen) during three successive quarters. (Summer sessions are not considered regular quarters.)

Veterans enrolled under Public Law 550 are subject to the following regulations regarding the academic load required for proportional subsistence for a regular quarter or a summer session:

Type of Enrollment	Number of Hours Required			
	UNDERGRADUATE		GRADUATE	
	QUARTER	SUMMER	QUARTER	SUMMER
Full-time enrollment	14	10	10	7
$\frac{3}{4}$ -time enrollment	10-13	7-9	8-9	6
$\frac{1}{2}$ -time enrollment	7-9	5-6	5-7	4-5
Less than $\frac{1}{2}$ -time enrollment	6 or less	4 or less	4 or less	3 or less

To be eligible for benefits, the veteran must be enrolled as a regular classified student making satisfactory progress in a degree program.

UNIT OF CREDIT

One quarter hour of credit represents the work done by a student in a lecture course attended one hour per week for one regular quarter, and, in case of laboratory and activity courses, the stated additional time. One quarter hour of credit is equivalent to two-thirds of a semester hour. Unless otherwise specified, one hour of credit means one quarter hour.

CLASS STANDING

An undergraduate student is classified as a freshman, sophomore, junior, or senior, depending upon the number of hours he has successfully completed toward the degree. A freshman is a student who has completed fewer than 48 hours; a sophomore, from 48 through 95; a junior, from 96 through 143; and a senior, 144 or more.

A student who has completed one bachelor's degree and is seeking a second bachelor's degree is registered as a senior in the academic unit in which he is seeking the second degree. An undergraduate student not registered in one of the academic units is registered as an unclassified student. Such a student must sign a statement indicating that he is not a degree student and that the credit received while he is enrolled as an unclassified student cannot be applied toward a degree at this University.

A registrant in the Graduate School is classified as a graduate student. A regular graduate student is one who is working toward an advanced degree from this University. A graduate student wishing to take graduate or undergraduate courses without their being counted toward a degree at this University is registered as an unclassified graduate student.

GRADING SYSTEM

Grades are expressed in letters as follows:

	(Per quarter hour)
A, Excellent	5 grade points
B, Good	4 grade points
C, Satisfactory (this is intended to be the average grade)	3 grade points
D, Poor, but passing	2 grade points
E, Failure; all work completed including final examination, but failed	1 grade point
W, Course not completed; includes incomplete records of all kinds (except "deferred" for graduate students)	0-5 grade points

The number of weeks the student has attended is indicated by a numeral; if he attended more than four weeks, this is to be fol-

lowed by the grade he was making at the time of withdrawal.
For example: W^sB.

DEF or DF, Deferred grade; work not complete. Given only for graduate students engaged in individual type work such as research, readings, thesis.

AU, Course taken on audit basis. No grade or credit hours earned.
CR, Credit. No letter grade assigned.

A grade given at the end of a course is final and may not be raised by additional work.

Any student who withdraws from a class without following the prescribed procedure will receive a grade of "WE" in the course regardless of when the withdrawal occurs. A withdrawal from a course is initiated with the student's academic adviser.

Courses from which the student has withdrawn after the first four weeks will be recorded as "W" and must carry a grade. Withdrawals after the first three weeks of an eight-week summer session or after the first six weeks of a sixteen-week extension course must carry grades. Exceptions to this rule may be permitted for unusual circumstances, but only through written approval of the student's academic dean.

Any change of grade, as upon the completion of a "W," must be reported within a year after the close of the quarter in which the course was taken. A fee of one dollar is charged for the completion of a course marked "W," unless the fee is waived on recommendation of the University Physician. A student who for some reason must miss the final examination may not take an examination before the one scheduled for the class. In this case, "W," along with the grade earned at the time, is recorded by the instructor. The final examination may be taken at a later date, within one year. A complete record of all changes in grades will appear on the official transcript.

A student may register for courses in an "audit" status. He receives no letter grade and no credit for such courses. An auditor's registration card must be marked accordingly. He pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for credit may not later change to an audit status or vice versa except for fully justified reasons. Such a change will ordinarily require the student's academic dean's approval.

The official record of a student's academic work is maintained in the Registrar's Office.

COURSE NUMBERS

The course numbering system is as follows:

000-099	for courses not properly falling within the following levels
100-199	for freshmen
200-299	for sophomores
300-399	for juniors and seniors
400-499	for seniors and graduates
500 and above	for graduate students only

Ordinarily, students are not permitted to take courses above their classification; that is, a freshman should register for freshman courses, and only in rare instances for sophomore courses.

HONORS DAY

In recognition of high scholarship, an Honors Day convocation is held each spring. A candidate for the bachelor's degree in June or August who has maintained a grade-point average of 4.25 or more for all of his work through the winter quarter of his senior year receives an honor pin. A transfer student must have entered Southern Illinois University by the beginning of the junior year and have maintained the 4.25 average in order to qualify. Each junior having a 4.25 grade-point average and each sophomore and freshman having a 4.50 grade-point average is also honored at the convocation but does not receive a pin. To be eligible, a student must be attending full time.

For Honors Day purposes a senior is a student who will be graduated in June or August; a junior must have more than 121 hours at the end of the preceding winter quarter but will not be graduated during the year; a sophomore must have 48 to 120 hours at the end of the preceding winter quarter; a freshman must have 32 to 47 hours at the end of the preceding winter quarter.

Graduating seniors are also recognized at commencement on the graduation program, and their diplomas designate honors granted on the following basis:

Highest Honors	Point average of 4.90 or higher
High Honors	Point average of 4.75-4.89
Honors	Point average of 4.50-4.74

MILITARY EXPERIENCE

Southern Illinois University follows the policies recommended by the

American Council on Education regarding credit for military experience and for experience in civilian activities related to the war, as set forth in the *Guide to the Evaluation of Educational Experiences in the Armed Forces*. No credit is allowed for College Level G.E.D. Tests. Credit will be accepted for USAFI courses within the limitations imposed for extension and correspondence work.

Veterans who served one year or more of active duty and who received an honorable discharge may receive up to fifteen hours of credit at Carbondale or up to six hours at Edwardsville for such service. This credit will substitute for the physical education, air science, and health education requirements for the Bachelor's Degree. Veterans who served six months to one year of active duty and were honorably discharged may receive three hours of freshman air science credit. Less than six months of active service does not allow any college credit.

In the event that a veteran has already taken some of this work in college prior to entrance into service, the amount of credit received for military service will be reduced correspondingly. In order to receive credit for military service a veteran must present a copy of his discharge or separation papers to the Admissions Office.

EXTENSION AND CORRESPONDENCE

A maximum of one-half of the number of hours required for the bachelor's degree, or ninety-six hours, may be taken by extension and correspondence courses combined. Of this total, not more than forty-eight hours may be taken in correspondence courses.

While Southern Illinois University does not maintain a correspondence division, courses taken by correspondence from institutions which are members of the Association of American Universities are regularly accepted if the grade earned is "C" or above.

FEES AND OTHER EXPENSES

The fees charged students are established by the Board of Trustees and are subject to change whenever conditions make changes necessary. At the present time, the fees charged for a quarter during the regular year are as follows:

Tuition\$42.00*

* Out-of-state students (non-Illinois residents) pay \$92.00 tuition rather than \$42.00. For regulations defining the residence of students for purposes of registration, see the appendix.

Student Activity Fee	9.50
Student Union Building Fund Fee	5.00
Book Rental Fee	5.00
Total	<u>\$61.50</u>

In addition to the above fees, a student is subject to certain other charges under the conditions listed below:

1. An AF ROTC equipment deposit of \$5.00 which is assessed the first time a student registers for a regular quarter if he is taking ROTC courses. This \$5.00, less any charge for lost equipment, is refunded to him at the end of the year. (Carbondale campus only.)

2. A late registration fee, which is \$2.00 for the first day and which increases \$1.00 each day to a maximum of \$5.00 when a student registers after the regular registration period has ended.

3. A \$1.00 charge for the completing of an incomplete course.

4. A \$2.00 program change charge whenever a student changes his program from the one for which he originally registered, unless the change is made for the convenience of the University.

5. A graduation fee of \$17.00.

6. A graduate student who is a graduate of a school other than Southern pays a matriculation fee of \$5.00.

Students holding valid state scholarships are exempt from the above fees to the extent provided by the terms of the specific scholarship held. An Illinois State Teacher Education Scholarship, an Illinois Military Scholarship, and an Illinois General Assembly Scholarship exempts the student from the paying of tuition, the student activity fee, and the graduation fee.

The student activity fee includes the fees for limited hospitalization, entertainment, athletics, student publications, and such other privileges as may be provided.

A part-time resident student taking not more than eight hours during a regular session pays half tuition and half the book rental fee. In addition, such a student pays the total student union building fund fee and has an option on paying the student activity fee.

Faculty members and university civil service employees taking courses are not charged tuition and activity fees. They pay, however, the book rental fee, which is \$5.00 for those taking more than eight hours and \$2.50 for others. They also pay the student union building fund fee.

Extension course fees are \$6.00 per hour plus a \$1.05 book rental fee per course.

Adult education course fees are computed on the basis of approximately \$0.60 per contact hour.

Other charges which a student may incur are those for departmental

field trips, library fines, and excess breakage. Also, a student taking a course involving use of materials, as distinct from equipment, will ordinarily pay for such materials.

A student registering for work on an audit basis is assessed fees on the same basis as when registering on a credit basis.

A student is entitled to a free transcript of his university record each time he has added academically to his record through work taken at this University, provided he has fulfilled all his financial obligations to the University. There is a charge of \$1.00 for each additional transcript.

PAYMENT AND REFUNDING OF FEES

Fees are payable quarterly during the academic year. On the Carbondale campus a student who registers in advance receives a fee statement by mail and may pay either by mail or in person at the Bursar's Office in accordance with instructions accompanying the fee statement. A student who does not register in advance or who registers during the last week of the advance registration period must pay fees at the time of registration.

On the Edwardsville campuses, fees are payable at the time of registration.

Refunding of fees is possible only if a student has withdrawn from school, officially, within the first ten days of a quarter and only if the application for a refund is received in the Registrar's Office within ten school days following the last regular registration day. This means that for quarters starting on a Monday the withdrawal from school must have been officially made within the first two calendar weeks of the quarter and the refund application received by Monday of the third week. No refunding of fees is made for a withdrawal occurring after the first two weeks.

A student who originally pays full fees and then finds that he must reduce his program to eight or fewer hours may receive a refund of one-half the tuition and book rental fee, provided the reduction is officially made during the first ten days of the quarter. Refund payment will be delayed in such case until after the fourth week of the quarter.

ESTIMATED EXPENSES FOR THREE QUARTERS

Carbondale Campuses

Tuition and Fees	\$184.50
Room Rent	\$175.00
Room rent is computed at the average rate of \$4.00 to \$5.50 per week for 36 weeks.	

(Continued on next page)

ESTIMATED EXPENSES FOR THREE QUARTERS (Continued)

Food	\$575.00
Food is estimated at \$2.25 per day for 252 days.	
Miscellaneous	\$175.00
This item includes school supplies, dates, etc. It is estimated by students as ranging from \$3.50 to \$5.50 per week.	
Total Estimated Yearly Average Expenses	<u>\$1109.50</u>

Edwardsville Campuses

Since there are no housing facilities on the Edwardsville campuses, the majority of the students are daily commuters. The estimated expenses, therefore, would be tuition and fees (\$184.50) plus transportation costs.

Degrees

SOUTHERN ILLINOIS UNIVERSITY grants the following degrees in June and August each year:

Associate in Art	Bachelor of Music Education
Associate in Business	Master of Arts
Associate in Technology	Master of Fine Arts
Bachelor of Arts	Master of Music
Bachelor of Science	Master of Music Education
Bachelor of Science in Agriculture	Master of Science
Bachelor of Science in Education	Master of Science in Education
Bachelor of Music	Doctor of Philosophy

ASSOCIATE DEGREE

Each candidate for an associate degree must complete a minimum of 96 hours of credit in approved courses. Each student must maintain a "C" average. The degree granting unit for the associate degree is the Division of Technical and Adult Education. For additional information concerning this degree the student should refer to the Division of Technical and Adult Education bulletin.

BACHELOR'S DEGREE

Although the following requirements should be met by degree candidates of all colleges and divisions, it should be noted that the general degree requirements of the University have been undergoing intensive study with a view to giving the students of the University further options and providing them with a more effective background not only for their

professional careers but also for their standing as citizens in the communities to which they go after graduation. At such time as these new requirements can be published, all students will be notified and the transition from the old system of requirements to the new will be handled with as little inconvenience as possible to all concerned.

Each candidate for the degree must complete a minimum of 192 hours of credit in approved courses. At least 64 must be in senior college courses. Each student must have a "C" average, and grades not lower than "C" in subjects aggregating at least three-fourths of the work. A "C" average is required in the major subject. These averages are required for the credit made at Southern as well as for the total record. To receive a bachelor's degree from Southern, a transfer student must present either a total of three years work (144 hours) earned at Southern or 48 senior college hours earned at Southern, 16 of which may be earned in extension.

Every degree candidate is expected to follow the basic program outlined below, plus the advanced work recommended by the academic unit in which he expects to do his major work. The requirement that every freshman must attend weekly freshman convocations should also be noted. If the student intends to take his degree elsewhere, the adviser may recommend changes in these requirements in favor of those of the institution from which the student plans to be graduated. If the student changes his mind and decides to take his degree at Southern, no requirements can be waived.

The following requirements should be met by all bachelor's degree candidates within the first two years of attendance except those students working toward their Bachelor of Music Education and the Bachelor of Music degrees.

SUMMARY OF REQUIREMENTS

REQUIREMENT	HOURS	COURSES
Social Studies	20	Economics 205, Geography 100, 300, Government 101, 190, 300, History 101, 102, 103, 201, 202, Sociology 101 (work in four of the five departments)
Humanities	18	
English	(9)	English 101, 102, 103
English	(6)	English 205, 206, 209, 211, 212
Art or Music	(3)	Art 120, Music 100
Biological Sciences	9	
Health Education	(4)	Health Education 100
Botany or Zoology	(5)	Botany 101, 102, 202, Zoology 100

Mathematics and Physical Sciences	12	Chemistry, physics, and mathematics (work must be completed in two departments)
Practical Arts and Crafts	3	Agriculture, business administration, home economics, industrial education (not required if the student has had any of this work in high school)
Physical Education	6	Activity courses (Carbondale campus)
	3	Activity courses (Edwardsville campuses)
Air Science	3	(This applies only to men at Carbondale)
Total	71	(Carbondale campus, men)
	68	(Carbondale campus, women)
	65	(Edwardsville campuses)

Bachelor of Music Education degree candidates must meet all of the above requirements except the taking of Art 120 or Music 100.

Bachelor of Music degree candidates should meet the following general degree requirements within the first two years of attendance.

REQUIREMENTS	HOURS	COURSES
Social Studies	15	Economics 205, Geography 100, 300, Gov- ernment 101, 190, 300, History 101, 102, 103, 201, 202, Sociology 101 (work in four of the five departments)
Humanities	18	
English	(9)	English 101, 102, 103
Foreign Language	(9)	One year of a foreign language
Biological Sciences	4	Health Education 100
Physical Sciences	4	Physics 101
Physical Education	6	Activity courses (Carbondale campus)
	3	Activity courses (Edwardsville campuses)
Air Science	3	(This applies only to men at Carbondale)
Total	50	(Carbondale campus, men)
	47	(Carbondale campus, women)
	44	(Edwardsville campuses)

A student who receives his first bachelor's degree from Southern, and who desires a second bachelor's degree, must complete forty-five hours in addition to those required for the first degree and must fulfill the requirements for the second degree. Of these forty-five hours, a minimum of fifteen hours must be taken in residence at Southern, and a maximum of fifteen hours may be acquired in extension and/or correspondence courses.

At least thirty hours must be in senior college courses. If a student received his first bachelor's degree from another university, forty-eight hours are required to fulfill the residence requirement for the second bachelor's degree, two-thirds of which must be in senior college courses.

In some cases, more advanced work may be substituted for the required courses listed. A student who transfers in his junior or senior year may substitute senior college courses in some departments for the freshman-sophomore courses listed above.

The physical education requirement can be waived only by the Graduation Appeals Committee upon the recommendation of the University Physician. Waiver procedure should be initiated early in a student's college course and in no case later than the end of his sophomore year. No student thirty years of age or older is subject to this requirement.

SOCIAL STUDIES

A student must have twenty hours in the social studies with work in four of the following five disciplines: economics, geography, government, history, and sociology. Students are expected to select from the courses listed below.

The state of Illinois requires that American patriotism and the principles of representative government, as enunciated in the American Declaration of Independence, the Constitution of the United States of America, and the Constitution of the State of Illinois, and the proper use and display of the American flag shall be taught in all public schools and other educational institutions which are maintained in whole or in part by public funds, and that no student shall receive a certificate of graduation without passing a satisfactory examination upon such subjects. Government 101, 190, and 300 and History 201 and 330 offer such instruction. Students preparing to teach should also check the College of Education bulletin concerning the state certification requirements.

ECONOMICS

205-5. SURVEY OF ECONOMIC PRINCIPLES.

GEOGRAPHY

100-5. **GEOGRAPHY OF MAN.** A world regional survey in which significant differences from place to place are observed and analyzed. Basic factors of population distribution. Tracing of development of man's working connections with the land and its resources.

300-4. **WORLD CULTURAL GEOGRAPHY.** World survey for students not majoring in geography. The factors of population distribution. Not open to those who have had 100.

GOVERNMENT

101-5. **PROBLEMS OF AMERICAN DEMOCRACY I.** A general survey of government including national and state constitutional principles as required by Illinois law.

190-5. **AMERICAN GOVERNMENT.** A general survey of national, state, and local governments. Includes the national and state constitutional principles as required by Illinois law.

- 300-4. AMERICAN GOVERNMENT. An advanced course to satisfy the American Government requirements of the College of Education. Deals with the structure and functions of national, state, and local government. Not open to those who have had 101 or 231.

HISTORY

- 101-3, 102-3, 103-3. SURVEY OF WORLD CIVILIZATION. Courses designed primarily for freshmen, as a survey of the development and evolution of civilization; the foundation for further courses in the field of history. One term devoted to each of the following periods: ancient, medieval, and modern.
- 201-5. HISTORY OF THE UNITED STATES TO 1865. Courses 201 and 202 designed to provide a general survey of the political, social, and economic development of the United States. Course 201 includes national and state constitutional principles as required by Illinois law. Prerequisite: sophomore standing.
- 202-5. HISTORY OF THE UNITED STATES SINCE 1865. A continuation of 201.

(Two quarters of 101, 102, 103 meet the requirement except for education students where five hours of United States history are required for graduation. History 201 or 202 will meet this requirement.)

SOCIOLOGY

- 101-5. INTRODUCTORY SOCIOLOGY. Scientific study of human society and the various means by which individuals and groups adjust to each other and to their physical and social environments.

HUMANITIES

Eighteen hours are required in the humanities. Of these eighteen hours, nine must be English 101, 102, and 103, with six additional hours selected from English 205, 206, 209, 211, and 212. The remaining three hours are to be Art 120 or Music 100. A student is also advised to complete the foreign language requirement, if any, for the bachelor's degree within the first two years.

ENGLISH

- 101-3, 102-3, 103-3. FRESHMAN COMPOSITION.
- 105-3 to 6. ENGLISH AS A FOREIGN LANGUAGE. Open to foreign students only. Maximum of three hours to be earned per quarter; graduate students receive no credit.
- 205-3. INTRODUCTION TO POETRY. Emphasis on techniques, type, and period.
- 206-3. INTRODUCTION TO DRAMA. The form, artistry, and ideas of various plays from most of the notable literary periods.
- 209-3. INTRODUCTION TO WORLD LITERATURE. A reading of masterpieces of European literature of various periods.
- 211-3. INTRODUCTION TO FICTION. An examination of the novel designed to acquaint the student with the important aspects of artistic excellence in this form.
- 212-3. INTRODUCTION TO MODERN LITERATURE. Principal forms,

ideas, and writers of the literature of America and England in the twentieth century. Especially recommended to majors in other fields than English.

ART

120-3. INTRODUCTION TO ART. Introductory course relating art to daily experience.

MUSIC

100-3. MUSIC UNDERSTANDING. Introductory course for nonmajors, with emphasis on background, purpose, and structure of representative compositions.

BIOLOGICAL SCIENCES

Nine hours are required in this area. Of these nine hours, four must be taken in Health Education 100 and the additional five in Botany 101, 102, 202, or Zoology 100.

HEALTH EDUCATION

100-4. HEALTHFUL LIVING. A survey course in personal and community health designed to meet the general health needs of college students. Presents scientific information as a basis for helping the student develop proper health attitudes and practices.

BOTANY

101-5. GENERAL BOTANY. An introductory study of the morphology, anatomy, and physiology of the seed plants, including vegetative and sexual reproduction; identification and recognition of common trees by leaf and stem characteristics. Laboratory and field studies.

102-5. GENERAL BOTANY. An introductory study of the morphology, anatomy, and physiology of the seed plants including vegetative and sexual reproduction; identification of plants will not include classification of trees. Laboratory.

202-5. GENERAL BOTANY. A study of representative plants of the great plant groups: classification; evolution of the plant kingdom. Laboratory, and one all-day (required) field trip. Cost: about \$5.00. Prerequisite: 101.

ZOOLOGY

100-5. PRINCIPLES OF ANIMAL BIOLOGY. Introduction to the major principles underlying the study of zoology. Lectures on principles of animal classification, organization of matter into cells, tissues, organs, and organ systems, heredity, ecology, animal distribution, organic evolution, economic zoology, and conservation. Laboratory work designed to illustrate the above principles.

MATHEMATICS AND PHYSICAL SCIENCES

Twelve hours are required in this area. These twelve hours are to be selected from two of the following three disciplines: chemistry, mathematics, and physics.

CHEMISTRY

- 101-4. GENERAL CHEMISTRY. A survey course for students who wish only to satisfy the general education requirements in physical science. Composition and states of matter, valence, formulas and equations, solutions and electrolytes; water, oxygen, carbon, sodium, and iron. Lecture and laboratory.
- 102-4. GENERAL CHEMISTRY. Continuation of 101, completing a survey of the more important nonmetals and metals, and of simple organic and biological chemistry. Lecture and laboratory. Prerequisite: 101.

MATHEMATICS

- 106-4. GENERAL MATHEMATICS I. A course designed particularly for students who take mathematics to satisfy a graduation requirement. Regular sections, designated in class schedule as 106a, include a careful study of the real number system in order to provide a better understanding of arithmetic and elementary algebra. Sections for business majors, designated in class schedule as 106b, cover topics from intermediate algebra with business application. Sections designated as 106c cover a regular course in intermediate algebra. Prerequisite: two semesters of high school mathematics and satisfactory score on placement test, or 100.
- 107-4. GENERAL MATHEMATICS II. Continuation of 106. Regular sections, designated in class schedule as 107a, cover certain topics from algebra and geometry. Sections for business majors, designated in class schedule as 107b, cover elementary mathematics of finance. Prerequisite: 106.

PHYSICS

- 101-4, 102-4. SURVEY COURSE IN PHYSICS. Mechanics, light, and sound covered in 101; heat and electricity in 102. For students whose chief interests are not in the physical sciences. Pre-engineers and physics majors should take 211, 212, and 213. Other science majors, including pre-medical students, should take 206, 207, and 208.

PRACTICAL ARTS AND CRAFTS

Three hours are required in this area for students who have not had any of this work in high school. Work may be taken in agriculture, business, home economics, or industrial education to meet this requirement. The number of courses from which a student might select makes it impractical to list specific courses here. A student should consult with his adviser when desiring to satisfy this requirement so as to make certain that he does not select a course which has a prerequisite he has not satisfied. Also, he might turn to the appendix of this bulletin for a listing of elective courses.

PHYSICAL EDUCATION

Six hours of physical education activity course credit are required for students on the Carbondale campus—three hours for students on the Edwardsville campuses. The work is to be selected from the courses listed below.

Men participating in varsity sports may satisfy this requirement by three

quarters of competition on a varsity athletic squad, each quarter in a different sport, provided they register for the varsity sports for credit. Not more than two hours in any one sport may count toward this requirement. Not more than six hours of physical education activity credit may be accepted toward the graduation requirement for men.

Women are to select three courses from the 100-series and three courses from the 200-series. All 100-numbered courses meet three days a week and all 200-numbered courses meet two days a week. Not more than one course may be taken in any one quarter without special permission from the physical education department.

PHYSICAL EDUCATION FOR MEN

- 149-1. ADAPTED AND RESTRICTED ACTIVITIES. Freshman requirement for students with functional or structural disorders. Three-hour activity.
- 151-1, 152-1, 153-1. FRESHMAN REQUIRED PHYSICAL EDUCATION. Three-hour activity.
- 170-2, 171-2, 172-2, 173-2, 174-2, 175-2, 176-2, 177-2, 178-2, 179-2. VARIOUS VARSITY SPORTS.
- 180-1. PERSONAL DESIGN FOR BETTER LIVING.
- 184-1, 185-1, 186-1, 188-1, 189-1, 190-1, 191-1, 192-1, 193-1, 194-1, 198-1, 199-1. VARIOUS SPORTS.
- 208-1, 224-1, 230-1, 233-1, 239-1. VARIOUS DANCE COURSES.
- 249-1. ADAPTED AND RESTRICTED ACTIVITIES. Sophomore requirement for students with functional or structural disorders. Two-hour activity.
- 251-1, 252-1, 253-1. SOPHOMORE REQUIRED PHYSICAL EDUCATION. Two-hour activity. Prerequisites: 151, 152, and 153.
- 254-1, 280-1, 281-1, 283-1, 284-1, 285-1, 286-1, 287-1, 288-1, 289-1, 290-1, 291-1, 292-1, 294-1, 297-1, 298-1, 299-1, 317-1, 377-1, 378-1. VARIOUS SPORTS.

PHYSICAL EDUCATION FOR WOMEN

- 100-1, 120-1, 204*-1, 205*-1, 228-1, 316-1, 317-1. VARIOUS SWIMMING COURSES.
- 101B-1, 101H-1, 101S-1, 102-1, 103-1, 206-1, 212-1, 213-1, 214*-1, 215-1, 216-1, 218*-1, 222*-1, 223-1, 254-1, 255-1, 315-1, 373-1, 375-1, 377-1. VARIOUS ACTIVITY COURSES.
- 107-1, 127-1, 208-1, 224-1, 230*-1, 233-1, 239*-1, 374-1, 376-1. VARIOUS RHYTHM, BODY MOVEMENT, AND DANCE COURSES.
- 101A-1, 102A-1, 103A-1, 201A-1, 202A-1, 203A-1. ADAPTED PHYSICAL EDUCATION. For students who are physically unable to participate in the regular physical education activities.

* Students who are advised by the University Physician to restrict their activities should register in courses marked with an "A" or an asterisk.

AIR SCIENCE

This requirement consists of Air Science 110, 210, 220, six quarters of leadership laboratory, and three elective courses.

All male students who undertake their first college work by entering

Southern Illinois University (Carbondale campus) are subject to this requirement unless they are veterans, or are over twenty-five years of age at the time of entrance, or are excused from this requirement by the Military Policies Committee.

All male students who transfer fewer than forty-five hours of acceptable credit from the Edwardsville campuses of Southern Illinois University, from the Vocational-Technical Institute of Southern, or from another college or university, including a junior college, are subject to this requirement unless they are veterans, or are over twenty-five years of age at the time of entrance, or are excused from the requirement by the University Military Policies Committee.

Descriptions of air science courses appear on page 129 of this bulletin.

ELECTIVE COURSES

Not all of the 192 hours required for a bachelor's degree consists of required courses. A student will find that he has opportunity to take a certain amount of work on an elective basis. The extent of this opportunity will vary, depending upon a student's academic unit and major.

A list of suggested elective courses appears in the appendix.

TEACHING CERTIFICATES

Most students planning to teach in the public schools register in the College of Education or the Education Division. However, it is possible for a student to be registered in one of the other academic units and meet the state requirements for a limited high school teaching certificate by using as his electives certain prescribed courses in education. Students may receive certification information from the Registrar's Office.

MASTER'S DEGREE

For information concerning the various master's degree programs, refer to the Graduate School bulletin or direct inquiries to the Dean, Graduate School, Southern Illinois University, Carbondale, Illinois.

DOCTOR OF PHILOSOPHY DEGREE

For information concerning the Doctor of Philosophy degree, refer to the Graduate School bulletin or direct inquiries to the Dean, Graduate School, Southern Illinois University, Carbondale, Illinois.

Special Programs for Credit

HONORS PROGRAM

The Plan "A" Curriculum has been created for the benefit of superior students who are interested in the objectives of general education as well as their own fields of specialization. This program is available at Carbon-dale only. It consists of one course per quarter for each class and is set up as follows:

FRESHMEN:

Plan "A" 151 - 152 - 153 - (2 hours of credit each quarter)

SOPHOMORES:

Plan "A" 251 - 252 - 253 - (2 hours of credit each quarter)

JUNIORS:

Plan "A" 351 - 352 - 353 - (3 hours of credit each quarter)

SENIORS:

Plan "A" 451 - 452 - 453 - (3 hours of credit each quarter)

A student may have credit for one course for one quarter only, or he may stay with the program for all twelve quarters and accumulate a total of thirty hours of credit. If he does not do satisfactory work, he may be asked to withdraw from the program at the end of the quarter.

At least two faculty members will be present at each session. Each quarter's work will be determined by the staff. For example, the program for Plan "A" 252 will be devised by the six faculty members who will offer the course. They will meet as many times as necessary during the previous quarter in order to settle upon the subject matter of the course and the necessary reading matter. Books will then be ordered for the course and kept on the shelves of the Plan "A" reading room.

It is hoped that these honors program courses will aid the students in integrating and evaluating their other courses. It is to be hoped also that through these courses they will become acquainted with the broad concepts and the great issues that play important parts in our society. Some quarters will also be planned to give the students an intensive study of the entire culture of a century; for examples, the fifth century B.C., the fifth century A.D., or the eleventh century A.D.

Plan "A" House is open for study purposes for its students all day every day except Saturday and Sunday.

INDIVIDUAL HONORS WORK

Individual Honors Work is distinguished from the Plan "A" Curriculum on the Carbondale campus by its stress on research and independent study during the junior and senior years. Department or division chairmen may compile lists of students eligible, or through conferences they may encourage outstanding students to do honors work.

If a student is accepted by his major department or division for honors work, the chairman of his major area will then appoint an adviser and two other staff members to form the student's committee. This committee shall approve the student's proposals for independent study and specific requirements in completing his major. He may then elect to do not fewer than nine nor more than twenty-one hours toward his major in independent research and investigation. He will take a comprehensive examination, either oral or written, at the end of his junior year, and again at the end of his senior year if he elects to do a second year of honors work.

Grades may be deferred at the end of the first and second quarters but not from one school year to the next.

The Honors Work Program Committee (Carbondale) or the Honors Program and Superior Student Committee (Edwardsville) will not function directly in the student's program but will offer its services in a standby capacity if ever a department or division chairman or a student's committee should call upon it.

PROFICIENCY EXAMINATIONS

The University recognizes the importance of providing adequate encouragement for academically talented students. A policy of permitting such students to demonstrate by examination the mastery of certain courses was adopted in the fall of 1959.

A student who wishes to apply for the privilege of taking a proficiency examination should initiate the request with his adviser.

High school students may participate in the proficiency examination program through the High School Advance Placement Program sponsored by the College Entrance Examination Board. Regular college students may apply to receive credit through university proficiency examinations.

A high school student who is qualified through registration in an advance placement course in his high school or through other special educational experience may apply for advance placement and college credit through the advance placement examinations of the College Entrance Examinations Board, 425 West 117th Street, New York 27, New York. A person must earn the grade of 3, 4, or 5, in order to receive credit. Any interested high school student should write to the University's Admissions Office to learn the current listing of courses for which credit may be earned through this program.

Ordinarily, the maximum number of credit hours which will be granted through advance placement examinations is sixteen hours. Credit earned will be nonresident credit, will not carry a grade, and will not be used in computing a student's grade point average. Credit granted at another accredited college or university under this plan will be transferable to this University up to a maximum of sixteen hours. A student may appeal to his academic dean to be granted more than sixteen hours.

For qualified college students, proficiency examinations may be administered in almost all academic courses at the 100 and 200 levels. Examinations in 300- and 400-level courses will be administered as needed. Academic advisers may be consulted as to the specific courses in which proficiency examinations are administered. The general regulations governing proficiency examinations follow:

1. A student applying for the privilege of taking a proficiency examination must present evidence that he has developed the competencies expected of students who have taken the course involved. He may demonstrate such competency by scoring in the upper 10 per cent on an acceptable standardized test of scholastic aptitude, by having taken formal course work in the subject in question, or by having had practical experience or studies directly related to the course for which the proficiency examination is requested.

2. Credit not to exceed forty-eight hours, including credit through the High School Advance Placement Program, may be earned through proficiency examinations. Credit thus granted will be nonresident credit.

3. Upon passing a proficiency examination in a course with a grade of "B" or above, a student will be granted regular credit toward graduation, provided that it does not duplicate credit counted for admission to the University and that the course is acceptable in his curriculum.

4. Credit granted through proficiency examinations at another accredited college or university may be transferred if earned in keeping with the regulations governing proficiency examinations at Southern.

5. A student's record will show the name of any course passed through proficiency examinations along with the amount of credit granted and a notation that it was granted by a proficiency examination.

6. A student may not take a proficiency examination to raise a grade, to remove a failure in a course, or to earn credit in a course previously registered for as audit.

7. A student may not take a proficiency examination for a course in which he already has credit in a more advanced course in the same subject area unless approved by the chairman of the department offering the course.

8. No credit granted as a result of proficiency examinations shall be applicable to a degree until the student has been in residence at Southern at least one quarter and has made at least a "C" average for this quarter.

A fee of \$5 will be charged for each proficiency examination administered by the University.

Student Welfare

HEALTH SERVICE

The primary purpose of the Health Service is to cultivate in students both physical and emotional health.

The students and parents are urged to read the *Health Service Bulletin* where more detailed information is given concerning hospitalization, the maintenance of a Student Medical Benefit Fund to help defray hospital costs, and procedures to be followed in the event of illnesses or accidents occurring on and off campus.

Carbondale Campuses

Director Richard V. Lee, M.D. (Illinois), University Physician, Associate Professor	1955
University Physician Katharine Kalnins, M.D. (Ludvig Maximillian, Munich), Associate Professor	1954
University Physician Joseph P. Miranti, M.D. (Loyola), Associate Professor	1961
Assistant Instructor Helen Thomas Goetz, R.N. (St. Luke's), Public Health Nurse at University School	1946

The University maintains a well-qualified staff of physicians, nurses, technicians, and a pharmacist which serves a large and active out-patient clinic. Any student enrolled in the University may consult the Health Service, free of charge, for any illness or related problem that he or she may have and receive indicated diagnostic workups and treatment. Diagnostic and treatment equipment include a modern laboratory, X-ray department, physical therapy unit, and in some instances referral to area specialists for more detailed diagnostic or treatment procedures.

The Health Service maintains a modern pharmacy where students may purchase necessary drugs or medications on a cost basis on prescription from a University Physician.

Other services include the maintenance of immunization programs for polio, typhoid, diphtheria, tetanus, and smallpox, without charge to students.

A student catastrophe insurance program is available for students who pay activity fees at an additional cost of about \$6 per year. This is supplementary to the student medical benefit fund.

Edwardsville Campuses

Health Service facilities with registered nurses on duty are available at Alton and East St. Louis. Arrangements have been made with local physicians to care for certain needs beyond the abilities of the campus Health Service.

In addition to the usual care for emergency first aid and illness, the Health Service provides a polio immunization program, hearing tests, and vision tests without charge to students.

CO-OPERATIVE CLINICAL SERVICES

Co-ordinator Alden M. Hall, B.S. (Bradley)	1953
Professor I. P. Brackett, Ph.D. (Northwestern)	1951
Professor Robert Karlin, Ph.D. (New York)	1959
Professor Herman B. Lantz, Ph.D. (Ohio State)	1951
Professor W. A. Thalman, Ph.D. (Cornell)	1929
Associate Professor Chester J. Atkinson, Ph.D. (Ohio State)	1954
Associate Professor Jack W. Graham, Ph.D. (Purdue)	1951
Associate Professor Richard V. Lee, M.D. (Illinois)	1955
Associate Professor John G. Martire, Ph.D. (Michigan)	1956
Associate Professor B. Elizabeth McKay, Ph.D. (Syracuse)	1952
Associate Professor Clinton R. Meek, Ph.D. (George Peabody)	1957
Associate Professor Guy A. Renzaglia, Ph.D. (Minnesota)	1955
Associate Professor Donald Shoemaker, Ph.D. (Ohio State)	1960
Assistant Professor Gene Jerome Brutten, Ph.D. (Illinois)	1957
Assistant Professor Ernest J. Doleys, Ph.D. (Missouri)	1959
Assistant Professor William Gerler, Ph.D. (Illinois)	1960
Assistant Professor Hugo Gregory, Ph.D. (Northwestern)	1958
Assistant Professor Michael S. Hoshiko, Ph.D. (Purdue)	1957
Assistant Professor Robert R. Spackman, Jr., M.S. in Ed. (Southern Illinois)	1957

Assistant Professor Ronald W. VanderWiel, M.S.W.

(Washington University)

1957

Instructor Norman Greene, M.S. in Ed. (Southern Illinois)

1957

Since 1936, Southern Illinois University has provided a variety of clinical services to its own students, to the public schools, and to the general public. These services have been available at several widely dispersed places throughout the campus.

In 1958, the University co-ordinated the clinical services on the Carbondale campus by establishing the Co-operative Clinical Services Center. The center provides a single place to which requests for services can come. In instances where services requested are not available at the Co-operative Clinical Services Center, the center assists in making referrals to other agencies.

Persons wishing to make use of any of the services participating in the Co-operative Clinical Services Center may write directly to the coordinator at Carbondale for an appointment. Facilities have been arranged in such a way that a person who may need the assistance of several specialties may receive this service in the one center. A variety of clinical services are provided by a professional staff assigned from the University's departments or agencies discussed below.

The Department of Elementary Education, through the Reading Center, assists children, students, and adults who are having difficulty in reading to improve reading skills and study habits. Referrals are accepted from the area schools as time permits.

The Department of Guidance, through the Child Guidance Clinic, examines various cases which are brought to the campus throughout the year, particularly those children having difficulties in their school subjects or in environments in which they are not understood. The department also provides consultive services to teachers, guidance directors, and school administrators in area schools; to parents; and to various public officials and agencies concerned with children.

The University Health Service promotes individual and general health in the university community by means of a comprehensive medical program. This is primarily a student service. To the extent that staff and facilities permit, physical therapy, supervised and prescribed by a university physician, is available to assist handicapped and temporarily disabled individuals.

The Department of Psychology provides professional services in psychological evaluation, diagnosis, and treatment. Evaluation includes intellectual assessment and comprehensive personality appraisal. Treatment

includes counseling, play therapy, and more extended and intensive psychotherapy. Services are available to students, to children, and to their parents and other adults.

The Rehabilitation Institute provides special services to handicapped students and, as time and facilities permit, to other handicapped persons as well. The staff works closely with allied services in providing general and vocational rehabilitation counseling. Rehabilitation counseling provides for individual appraisal and diagnosis, general counseling pertaining to matters that handicapped individuals find troublesome, uncertain, or distracting, and the development of realistic educational and vocational plans.

The Department of Sociology provides marriage counseling services for the single as well as the married person. Services are available to students, their families, and to off-campus persons as available staff time permits.

The Department of Special Education works directly with the Child Guidance Clinic in assisting the mentally retarded and those having special handicaps. A special program for preschool-age deaf children provides intensive tutoring in language development. An Employment Evaluation and Training Project for adolescent mentally handicapped boys is also provided by this department.

The Department of Speech Correction provides service for persons who have speech and hearing deviations which handicap them in the normal pursuits of everyday life. This is accomplished through a thorough evaluation of the individual's problems, consultation with those concerned, and when advisable, the scheduling of regular therapy sessions. The following areas come within the scope of the clinic: hearing testing and hearing aid evaluations, training in use of residual hearing, teaching of lip reading, articulatory disorders and delayed speech, stuttering, cleft palate, cerebral palsy, voice disorders, aphasia and speech training for the laryngectomized.

The Student Counseling and Testing Center provides a setting designed to help college students grow in self-understanding so they may use their assets productively and plan realistic goals for themselves. The center provides personal, educational, and vocational counseling and, when needed, arranges for psychological testing and the interpretation of the results.

STUDENT WORK PROGRAM

Director Frank C. Adams, M.S. in Ed. (Southern Illinois),
Instructor

1957

Assistant Director Roland Keene, M.A. in Ed. (Washington University), Instructor	1958
Supervisor Alice Rector, Ed.D. (Washington University), Assistant Professor	1946
Supervisor Raymond P. DeJarnett, M.S. in Ed. (Southern Illinois), Instructor	1960
Supervisor David R. Van Horn, M.S. (Oklahoma State), Instructor	1957
Assistant Supervisor Joseph Zimny, B.S. in Ed. (Southern Illinois), Lecturer	1958

The Student Work Program, operating on the Carbondale and Edwardsville campuses, serves two major purposes: It provides financial assistance in the form of part-time employment; and it provides work experience which relates, if possible, to the student's academic program. Students employed on-campus are expected to participate in training programs. The kind of training and length of the programs are determined by the employing unit in co-operation with the Student Work Office.

The Student Work Office, which is the administrative office for the program, is a referral agency and cannot promise jobs to students. However, every effort is made to place capable, needy students in either on-campus or off-campus jobs.

Students employed on-campus are paid from \$0.80 to \$1.25 per hour, based upon off-campus experiences and the number of years of satisfactory service to the University. Employment by the University on a part-time basis provides financial assistance and work experience for some 2,000 students in the following job classifications:

- Class 1. Instructional research assistants, who assist in the instructional or laboratory work and in highly technical jobs, are paid from \$0.80 to \$1.25 per hour.
- Class 2. Technical and supervisory workers, who are highly skilled, assume extra responsibility, and are able to work without close supervision, are paid from \$0.80 to \$1.25 per hour.
- Class 3. Clerical workers, who work at semi-skilled and semi-technical jobs, are paid from \$0.80 to \$1.10 per hour.
- Class 4. Service workers and maintenance workers, who work at semi-skilled and semi-technical jobs, are paid from \$0.80 to \$1.10 per hour.
- Class 5. Special workers, such as students who have special skills and talents and work at jobs not included in the above classifications, are paid from \$0.80 to \$1.25 per hour.
- Class 6. Extra workers performing jobs of short duration which are

included in Classes 3 and 4 are paid from \$0.80 to \$1.00 per hour.

The recommended work load with respect to the academic load is as follows:

ACADEMIC LOAD	WORK LOAD
15-up hours	Below 80 hours per month
12-14 hours	Below 100 hours per month

The Student Work Office sets the standards and reviews the qualifications of students to determine their eligibility to participate in the program. Therefore, it is the first office to be contacted by the students who desire part-time employment. High school seniors who have urgent financial problems should contact the Student Work Office in the spring before high school graduation. They should seriously consider enrolling in the University for the summer session in order to be in close contact with the Student Work Office for possible referral and placement. It is recommended that prospective students who expect to earn part of their expenses should have means of support for at least one quarter.

The Student Work Office also assists students in finding summer employment at resorts, in governmental agencies, in business and industry, on farms, and with canning and packing companies.

An application for student employment, or information about work possibilities, may be obtained by writing to the Student Work Office on the campus where work is desired.

STENOGRAPHIC SERVICE

Supervisor Mary S. Walker, B.S. (Southern Illinois)

1960

The Stenographic Service, located on the Carbondale campus, was activated for a twofold purpose: (1) to give faculty members access to qualified secretarial help; and (2) to train student employees so that they may give better service while employed in a student capacity.

The work performed by this service is primarily mimeographing, collating, spirit process duplicating, copying by Verifax, automatic type-writing, and general stenographic duties.

OFFICE OF STUDENT AFFAIRS

The services of the Office of Student Affairs are designed to assist in developing and maintaining a suitable campus environment for all stu-

dents. The Office of Student Affairs co-ordinates all student personnel services not directly associated with academic instruction and supervises all student activities and organizations.

Carbondale Campuses

Director of Student Affairs and Dean of Men I. Clark Davis, Ed.D. (Indiana), Associate Professor	1949
Assistant Dean of Men Joseph F. Zaleski, Ed.D. (Florida), Assistant Professor	1958
Assistant Dean of Women Loretta Ott, M.S. in Ed. (Southern Illinois), Instructor	1948

The Office of Student Affairs on the Carbondale campus includes the Student Special Services Office, which includes Housing and Financial Assistance, Student Activities Office, and the Student Counseling and Testing Center.

Edwardsville Campuses

Director of Student Affairs Howard V. Davis, Ed.D. (Washington), Associate Professor	1957
Supervisor, Alton, William F. Banaghan, Ph.D. (Purdue), Assistant Professor	1959
Supervisor, East St. Louis, Thomas D. Evans, M.S. (Southern Illinois), Instructor	1957

The Office of Student Affairs on the Edwardsville Campus includes Counseling and Testing, Student Health and Welfare, Student Activities, Financial Assistance, Placement, Student Employment, Athletics, and Student Special Services.

STUDENT COUNSELING AND TESTING

Carbondale Campuses

Co-ordinator Jack W. Graham, Ph.D. (Purdue), Associate Professor	1951
Associate Co-ordinator William R. Gerler, Ph.D. (Illinois), Assistant Professor	1960
Instructor Wilbur Ray Venerable, M.A. (Kentucky)	1957
Lecturer Paul E. Engsborg, M.Ed. (Missouri)	1961-62

The Student Counseling and Testing Center is staffed with professional counselors who are able to discuss and explain freely any problem or plan that may concern the student be it personal, academic, or voca-

tional. The center stresses personal and clinical counseling that is initiated by the student. A counselor, free of other commitments, is available during regular office hours ready to assist students coming to the center for their first time. The counselor is able to explain the counseling process and assist students in arranging a scheduled appointment. Counseling is designed to help the student arrive at a realistic solution to his problem by providing a permissive setting in which the student may express freely his thoughts and feelings and in turn gain insights for greater understanding.

The Student Counseling and Testing Center is approved by the Committee on Professional Practices of the American Personnel and Guidance Association. Services to the students are provided without charge. When special testing is needed to assist in counseling, it may be arranged through the center.

Close co-operation is maintained with the other functional areas of the Office of Student Affairs, the Co-operative Clinical Services Center and the Academic Advisement Center in providing help for students. Referrals are accepted from these agencies and from the faculty. Referrals are made for students needing services of any of the agencies co-operating in the Co-operative Clinical Services Center.

PRECOLLEGE COUNSELING

High school seniors who are contemplating entering college may obtain counseling to assist them in their decision concerning the type of program they might best pursue. General information regarding college and university admission and graduation requirements is provided.

Visits to high schools by staff members from the University are made upon request to supplement the educational and vocational counseling provided by the high schools.

VOCATIONAL INFORMATION

The Student Counseling and Testing Center has a file of selected pamphlets, monographs, and books catalogued to afford authentic information about vocational requirements, trends, and opportunities, including those in military service. A similar file is provided in the Education Library of Morris Library.

TEST ADMINISTRATION

In addition to the extensive individual testing completed in conjunction with counseling, the Counseling and Testing Center also administers various testing programs for selection, placement, and research purposes.

On the first Friday and Saturday of each month, the Counseling and Testing Center administers the Tests of General Educational Development.

Residents of Illinois over twenty-one years of age who desire to earn high school diplomas through this program should write the Student Counseling and Testing Center for further details.

Southern Illinois University administers the tests for the American College Testing Program and the Illinois State-wide Scholarship Program on the Carbondale campus and also at East St. Louis and Alton.

Several national testing programs, such as the Graduate School Selection Examination, the Medical College Admission Test, and the Law School Admission Test, are administered each year for students seeking entrance to graduate or professional schools. The Selective Service College Qualification Test and the College Entrance Examinations are given on the announced dates. Information regarding the above tests and other national testing programs may be obtained by consulting the Student Counseling and Testing Center.

Students desiring to take the final examinations for correspondence courses from other universities may arrange with the Counseling and Testing Center in order to take the examinations under approved supervision.

TEST SCORING AND RESEARCH SERVICE

An electric scoring machine is available for scoring tests for faculty members, academic departments, research programs, as well as schools in the area. Assistance in the construction and standardization of objective tests is provided by staff members. Educational research projects relating to the general responsibilities of the Office of Student Affairs and related areas are carried out by the staff.

Edwardsville Campuses

The Office of Student Affairs offers counseling services to students desiring assistance in making the adjustment to college life. Counseling is concerned with assisting the student in understanding and evaluating his potentialities and limitations in solving his problems and taking advantage of his opportunities. Special attention is given to students desiring to withdraw, to students with scholastic inefficiencies or deficiencies, to students with superior ability, and to students with attendance and attitude problems. Testing is an aid to understanding the individual student. It provides objective-type measures of certain phases of the intelligence, interests, aptitudes, personality, and achievements of the individual student and is particularly related to the counseling function.

GUIDANCE TEST BATTERY

College ability tests and achievement tests are offered to all students in the form of the Guidance Test Battery which is required to be taken

when students enter Southern Illinois University. The battery includes a college ability test, an English achievement test, and a mathematics achievement test. When receiving personal, educational, and vocational counseling, students may also be given intelligence, aptitude, interest, and temperament tests. Counselors are available to discuss any problems which may confront a student and to consult with parents, guardians, and instructors.

PRECOLLEGE COUNSELING

High school seniors who are contemplating entering college may obtain counseling to assist them in their decision concerning the type of program they might best pursue. General information regarding college and university admission and graduation requirements is provided.

Visits to high schools by staff members from the University are made upon request to supplement the educational and vocational counseling provided by the high schools.

VOCATIONAL INFORMATION

The Office of Student Affairs has a file of selected pamphlets, monographs, and books catalogued to afford authentic information about vocational requirements, trends, and opportunities.

CORRESPONDENCE COURSE FINAL EXAMINATIONS

Students desiring to take the final examinations for correspondence courses from other universities may arrange with the Office of Student Affairs in order to take the examinations under approved supervision.

FINANCIAL ASSISTANCE

Co-ordinator Arthur A. Swanson, M.S. in Ed. (Southern Illinois)	1959
Assistant Co-ordinator Mary M. Beimfohr	1957

The basic goal of the financial assistance program at Southern Illinois University is to enable talented high school graduates who may lack financial resources to enter and continue experiences in higher education. The program has been organized so that it may function as an integral part of the total educational experience of the student. An attempt is made not only to assist needy and deserving students with their financial obligations through the program, but in addition, to contribute to their general development and learning experience.

The program of financial assistance includes scholarships, awards, prizes, grants-in-aid, and student loan funds. As a part of the award pro-

gram, the Board of Trustees of the University has established tuition awards known as Southern Illinois University Scholarship and Activity Awards. Normally, this is the only form of scholarship or award assistance for which entering students may be considered. Freshman applicants are required to have ranked in the upper half of their graduating class or to have achieved a minimum comprehensive high school average of "C" in order to be eligible to apply for *awards*. Enrolled students are required to have a minimum average of "C" for all college work in order to apply for such awards; for *scholarships* available to upperclassmen, a minimum average of "B" for all college work is required.

The comparative limitations of such forms of assistance in terms of both number and amount available make it inadvisable for an undergraduate student to expect to meet all university expenses from such sources. It is strongly suggested that the student be prepared to supplement such assistance as may be granted with funds secured from personal means.

In addition to the minimum scholastic average, the degree of financial need is generally an important requirement in determining the recipients of many of the forms of financial assistance available.

Before a student's application for any of the forms of financial assistance may be considered, it is necessary that he submit an application for admission to the University. This should be done shortly after the close of the applicant's seventh semester of high school. Proper forms may be obtained from the Admissions Office of the University.

Completed applications for all forms of financial assistance allocated by the Scholarships and Loans Committee of the University must be submitted between January 1 and March 15 of the year prior to the September the applicant wishes to be considered for the assistance. Applications for assistance to be granted at other times during the year should be submitted within the period specified at the time the application is obtained.

Applicants for assistance to become effective in the fall will be notified of decisions concerning their applications during the summer prior to the opening of the fall quarter.

Graduate students should refer to the Graduate School bulletin for information concerning assistantships and fellowships.

All inquiries concerning financial assistance should be directed to the Office of Student Affairs on the campus that the student plans to attend.

FEDERAL ASSISTANCE

National Defense Education Loan Fund

The National Defense Student Loan Fund, established under Title II of the National Defense Education Act of 1958, provides a long-term loan

program from which eligible and deserving students may be granted substantial loans to supplement other income for educational purposes. Full-time undergraduate and graduate students in good standing at the University are eligible to apply for these loans. Graduating high school seniors may apply during their last semester if they have been admitted to the University. Students attending only during summer sessions are not eligible. Students must also be United States nationals. If loans are granted, students must continue to meet the above-stated criteria in order to receive assistance from this fund. Complete details regarding this program may be obtained from the Financial Assistance Center.

Federal Assistance for Veterans of Military Service

Educational benefits for most veterans of World War II have elapsed. A person having a service-incurred disability may qualify as a recipient of benefits under Public Law 16 or 894, the latter being an amendment to Public Law 16. Public Law 16 is intended for veterans who received their disability between September 16, 1940, and July 25, 1947, while Public Law 894 is intended for veterans who received their disability between June 27, 1950, and an unestablished date in the future. Under Public Laws 16 or 894 the veteran's tuition, fees, special equipment and supplies, and subsistence will be paid for by the United States Government through the Veterans Administration.

Persons who have been in active military service between June 27, 1950, and January 31, 1955, who have served at least ninety days, and who have been discharged under conditions other than dishonorable may be eligible for educational benefits under the Veterans Readjustment Assistance Act of 1952 (Public Law 550 or "Korean G.I. Bill"). Application forms and additional information concerning these benefits may be obtained from the Registrar's Office, the Office of Student Affairs, the Veterans Administration, or the local Illinois Veterans Commission Office. Veterans are urged to apply for training at least two months prior to enrolling in the University.

Experience has shown that a period of two or three months elapses before a veteran participating in such a program receives his first check. It is advisable, therefore, that each veteran be prepared to finance himself in the first two or three months during his first quarter in attendance at the University.

Public Law 634

Benefits under Public Law 634 are available to the child or children of a person who died of an injury or disease incurred or aggravated in the line of duty in active service in the Armed Forces during World War I,

World War II, or the Korean conflict and whose service did not terminate under dishonorable conditions. In addition, if the veteran's child served on active duty with the Armed Forces he must have been separated under conditions other than dishonorable.

Payments cannot be made while the veteran's child is serving on a tour of duty with the Armed Forces. In general the same rules apply to this law as to Public Law 550. Application forms may be obtained at the Registrar's Office, the Veterans Administration, or the local Illinois Veterans Commission Office.

STATE ASSISTANCE

State Teacher Education Scholarships

State scholarships are awarded each year through the office of the State Superintendent of Public Instruction to selected students who plan to enter the teaching profession. Graduates of recognized high schools who are in the upper half of their graduating classes are certified by the principals to county superintendents, who transmit these names to the Superintendent of Public Instruction. The Superintendent, in turn, may award scholarships to the highest-ranking graduates who signify their intentions to prepare to teach in the Illinois public schools. The scholarship covers the student's tuition and activity fees. Holders of these scholarships must apply for admission to the University not later than August 15 of the year in which the scholarship is awarded. Such a student must be registered in a teacher training program while using the scholarship. If a scholarship holder does not register for the next regular quarter following receipt of the scholarship, or if, having registered, he withdraws from the University, he forfeits his scholarship. Any student holding a scholarship who needs a leave of absence for the purpose of earning funds to defray his expenses while in attendance, on account of illness, or because of entrance into military service, may be granted such leave and allowed a period not to exceed six years in which to complete his course at the University. Request for a leave of absence should be addressed to the Registrar. A forfeited scholarship may be issued to the next highest-ranking student as shown on the list submitted to the Superintendent of Public Instruction. Recipients need to bring their scholarships to the Registrar's Office where they are kept on file. Currently, this scholarship covers tuition, student activity fee, and graduation fee.

State Scholarship Act

The state scholarship program is applicable at Southern Illinois University. This scholarship exempts the student from certain fees. Interested

students should consult their local high school office early in their senior year for complete information on the program.

Holders of state scholarships on the Carbondale campus have a special adviser to assist them in arranging programs best suited to their needs.

General Assembly Scholarships

Each member of the General Assembly (Senator or Representative) may nominate annually two persons of school age and otherwise eligible, from his district, one of which shall receive a certificate of scholarship in the University of Illinois, and the other a certificate of scholarship in any other state-supported university designated by the member. Interested students planning to attend Southern Illinois University should contact their Senator or Representative. This scholarship exempts the student from the paying of tuition, student activity fee, and graduation fee.

Vocational Rehabilitation

Under the State Board for Vocational Education is a division for the vocational rehabilitation and placement in remunerative employment of persons whose capacity to earn a living is or has been impaired. This includes those with physical handicaps of various kinds. Approved students receive all registration and tuition fees, book rental, and school supplies for nine months a year.

Persons who wish to consult with a representative may call at the Carbondale Field Office located at 416 South Illinois Avenue. Students from other parts of the state who are now receiving training through the State of Illinois Division of Vocational Rehabilitation may consult any representative of the Board.

Illinois Military Scholarship

Any person who served in the Armed Forces of the United States during World War I or World War II (including all service between September 16, 1940, and an undetermined date to be established in the future) may be eligible for the benefits of the Illinois Military Scholarship. To be eligible a person must have been (1) a resident of the state of Illinois at the time of entering the service; or, if not an Illinois resident, a student at Illinois State Normal University, Northern Illinois University, Eastern Illinois University, Western Illinois University, Southern Illinois University, or the University of Illinois at the time of his enlistment or induction; and (2) honorably discharged.

This scholarship is awarded for four calendar years or for sufficient time to enable the veteran to complete his course of study provided this time does not exceed four calendar years. It may be used for resident or

off-campus study and covers tuition, activity fee, and graduation fee. Application for this scholarship should be directed to the Registrar's Office and must be accompanied by a copy of the discharge. Award will be made only to veterans possessing all necessary entrance requirements.

After a veteran has been awarded a scholarship, he must use it on a continuing basis. Any period of absence not covered by an approved leave of absence will result in the loss of the scholarship. Leaves may be granted for a maximum of two years for reasons of illness, to earn funds to defray expenses while in attendance, or to enter military service. Requests for leaves of absence should be directed to the Registrar's Office.

The Governor's Committee for Veterans' Rehabilitation and Employment

This committee will assist any veterans, but gives aid primarily to ex-servicemen and ex-servicewomen with impaired health or with limited physical abilities. Such persons may receive, at state expense, vocational training and education, plus health restoration treatments and prosthetic appliances. After proper training, they are given assistance in obtaining employment.

Carbondale Campuses

NONGOVERNMENTAL ASSISTANCE

Funds for which Recipients are Selected by the Scholarships and Loans Committee of the University

- Achievement Prize for Zoology Majors
- Alpha Delta Sigma Advertising Scholarship
- Borden Freshman Prize
- Carbondale Council of Garden Clubs Award
- Donald Forsythe Unit No. 514 Scholarship (American Legion Auxiliary)
- Egyptian Association Grants-in-Aid (for Teachers of Mentally Handicapped Children)
- Epsilon Lambda Award (Delta Theta Tau Sorority)
- Floyd Wakeland Memorial Award (Southern Illinois University Foundation)
- Foundation Endowment Scholarship Fund (Southern Illinois University Foundation)
- Francis M. Hewitt, Sr. Scholarship in Art (Southern Illinois University Foundation)
- Frank Galbreath Fund
- Freshman Prize in Nursing
- Gloria Credi Memorial Scholarship

Herrin Textile Workers Union Scholarship
(Southern Illinois University Foundation)
Illinois Congress of Parents and Teachers Association Scholarship
Illinois Congress of Parents and Teachers Special Education Scholarship
Illinois Lions Committee for Retarded Children Award
James H. Stoevers Memorial Fund for Retarded Children
Johnson Foundation Chemistry Scholarship
June Vick Memorial Scholarship
Junior Women's Clubs of Illinois Award
Larry Mann Advertising Scholarship
Leah M. Reef Memorial Scholarship (Southern Illinois University Foundation)
Leo Kaplan Memorial Scholarship (Southern Illinois University Foundation)
Limerick Finance Scholarship
Miller, Natowitz, Paris Memorial Scholarship (Southern Illinois University Foundation)
Mu Phi Epsilon Music Award (Southern Illinois University Foundation)
Nursing Scholarship
Pi Kappa Sigma Memorial Alumnae Scholarship
(Southern Illinois University Foundation)
Presser Foundation Music Scholarship
Roscoe Pulliam Memorial Alumni Scholarship
Sahara Coal Company Awards in Forestry
Saluki Award Fund
Sangamo Management Club Award (Southern Illinois University Foundation)
Small Business Institute Scholarship Fund
Southern Illinois District Council Activity Awards
Southern Illinois Symphony Orchestra Awards
Southern Illinois University Scholarship and Activity Awards
Southern Illinois University Faculty Mine Memorial Scholarship
Southern Illinois University Student Refugee Fund Award
Thelma Louise Kellogg Scholarship (Southern Illinois University Foundation)
Transportation Club of Little Egypt Award
Washington County H.I.A. Honor Award
Western Electric Scholarship
Women's Physical Education Award
Woody Hall Scholarship
Woody Hall Service Award

*Funds Administered by the University for which
Recipients are Selected by the Donor*

Abbott Foundation Grant-in-Aid
Aileen S. Andrew Grant-in-Aid
Alcoa Foundation Scholarship Fund
Alpha Phi Omega Scholarship (Zeta Nu Chapter)
American Legion, Department of Illinois Prize
American Legion—Paul Stout Post No. 127 Grant
American Baptist Convention Grant-in-Aid
Anita Ray Early Memorial Scholarship
Asian Studies Scholarship
Aviston Chamber of Commerce Scholarship
Beverly Hills University Club Scholarship
B'nai Brith Federation Scholarship Exchange
Bonallynn Chism Scholarship Award
Business Men's Assurance Grant-in-Aid
Cahokia Commonfields High School Student Council Grant
Carbondale Community High School Parents and Teachers Association Scholarship
Carl Sandburg High School PTA Grant-in-Aid
Carmi Elks Lodge No. 1652 Award
Collinsville Education Association Grant
Comanche Parents Music Scholarship
Cummins Engine Foundation Matching Distributorship Scholarship Program
Dan Hopkins Advertising Scholarship
Design Initiative Award
Dillard High School Scholarship
Eastern Star of Illinois Grant-in-Aid
Edna M. Ivey Memorial Scholarship
Elks National Foundation
Elsie Bain Scholarship in Nursing
Frank Gannett Newspaperboy Scholarship
Fraternal Order of Eagles, Murphysboro Aerie
George M. Pullman Educational Foundation
Girls' Rally Scholarship Fund
Government Employees Mart Grant-in-Aid
Granite City Scholarship Foundation
Helen Schuman Graduate Scholarship
Home Economics Scholarship
Illinois Elks Association Scholarship Fund
Illinois Federation of Women's Clubs Grants-in-Aid

Illinois Poultry Improvement Association Award
 Illinois Production Credit Association Award
 Jefferson County Association for the Mentally Retarded Award
 Joe Dougherty and Don Cross Award
 John Doyle Scholarship Foundation Award
 Journal Star Scholarship Fund
 Junior Minerva Club of Granite City Award
 Mary Louise Barnes Alumnae Scholarship in Home Economics
 Men's Residence Halls Service Award
 Mount Olive Association Scholarship
 Murphysboro B.P.O.E. No. 572 Scholastic Scholarship
 Murphysboro Shrine Club Scholarship
 National Honor Society Scholarship
 Pennsalt Scholarship Award
 Prairie Farmer Publishing Company Scholarship in Agricultural Journalism
 Production Credit Association Awards
 Randolph County Education Association Scholarship
 Ratner, Miller, Shafran Foundation Grant-in-Aid
 Southern Baptist Convention Grant-in-Aid
 Southern Illinois Editorial Association Award—Community Journalism
 Southern Illinois Reunion Council Award
 Stonefort American Legion Post No. 400 Scholarship
 The General Henry H. Arnold Educational Fund Grant-in-Aid
 University Women's Club Award
 Washington Street Baptist Church Grant
 West Frankfort Business and Professional Women's Club Award
 Women's Relief Corps, G.A.R.
 W. V. Jeans Memorial Award, in Farm Equipment Retailing

Prizes

A limited number of prizes are awarded to students who have evidenced superior achievement in specific areas or departments of the University. These prizes often take the form of books, medals, or trophies, and are presented at various times during the year. Eligibility varies considerably from one prize to another. Interested students are invited to consult the specific departments or groups concerned with selecting the recipients for further details. The following prizes are currently in existence at the University.

Alpha Lambda Delta Award
 American Association of Teachers of Spanish and Portuguese, Bronze Medal
 American Association of University Professors Scholarship

American Guild of Musical Artists Award
 Betty Rhodes Scholarship Award (Alpha Gamma Delta)
 Elementary Education Prize
 Floyd Wakeland Memorial Award in Music
 Illinois Beta Association of Phi Beta Kappa Commencement Prize
 Interstate Conference Scholastic-Athletic Award
 Janice Neckers Memorial Scholarship (Sigma Sigma Sigma)
 Kappa Omicron Phi Award
 Mallarmé Prize in French Studies
 Norman Caldwell Prize in History
 Phi Eta Sigma Faculty Adviser's Award
 Phi Eta Sigma Scholarship Prize
 Philosophy Prize
 Physical Education Honor Award
 Pi Omega Pi Award for Outstanding Achievement in Business Education
 Sigma Pi Memorial Fund
 Wall Street Journal Achievement Award

Student Loan Funds

Through the generosity of friends of the University, several short-term loan funds have been established to be used by needy and deserving students. There are two basic requirements which are applicable to most of these funds; the applicant must be more than a first quarter student and he must have a minimum comprehensive University average of "C." Amounts which may be borrowed vary with the individual loan funds. Generally, freshman and sophomore students are permitted to borrow up to \$50.00; juniors, seniors, and graduate students are permitted to borrow up to \$150. In addition, a private foundation has established a loan fund at the University from which qualified juniors and seniors under twenty-five years of age may borrow up to \$600. The rate of interest and method of repayment vary with the particular loan fund, but the usual rate of interest on funds administered directly by the University is 3 per cent per year.

The following student loan funds are currently in existence at the University.

Altrusa Club Student Loan Fund
 Carbondale Branch AAUW Loan Fund
 Carbondale Business and Professional Women's Club Loan Fund
 Carbondale Rotary Club Student Loan Fund
 Faculty-Staff Aid to Students
 General Student Loan Fund
 General University and Men's Residence Halls Emergency Loan Fund
 Harrisburg Women's Club Student Loan Fund

Harwood Hall Student Loan Fund
Helen A. Shuman Memorial Fund
Henry Strong Educational Foundation Loan Fund
Householder's Loan Fund
Illinois Congress of Parents and Teachers Loan Fund
Illinois Health Improvement Association Loan Fund
Interfraternity Council Student Loan Fund
Jane Holloway Loan Fund
Lionel Picheny Memorial Loan Fund
Lucy K. Woody Student Loan Fund
Malvine Beck Educational Student Loan Fund
Marion Business and Professional Women's Club Loan Fund
Mary M. Steagall Memorial Student Loan Fund
Men's Residence Halls Loan Fund
National Defense Student Loan Fund
Pearle Sherman Student Loan Fund
Printing Service Loan Fund
Southern Illinois University Women's Club Loan Fund
Southern Illinois University Alumni Association Student Loan Fund
William and Mary Gersbacher Student Loan Fund
William McAndrew Memorial Student Loan Fund
W. O. Brown Student Loan Fund
W. W. Vandever Student Loan Fund
25th District Illinois Federation of Women's Clubs Student Loan Fund

Edwardsville Campuses

Scholarships and grants-in-aid currently in existence at the Edwardsville campuses include the following:

All America City Health Award
Alton Branch American Association of University Women
Association on American Indian Affairs Scholarship Fund
Bunker Hill P.T.A. Scholarship
First Corinthian Baptist Church Fund
Granite City Scholarship Foundation, Inc.
Illinois Association of Colored Women Scholarship Fund
Elijah P. Lovejoy Memorial Grant
Maclellan Foundation Fund
Sue McLaughlin Memorial Fund
Alton Chapter—National Secretaries Association
Senior Class Loan Fund
George Washington Educational Fund
Foundation General Scholarship Fund

STUDENT ACTIVITIES

Carbondale Campuses

Co-ordinator Elizabeth I. Mullins, M.Ed. (Illinois), Instructor	1957
Assistant Co-ordinator William C. Bleyer, M.S. in Ed. (Southern Illinois)	1958

Southern Illinois University encourages a broad program of student activities with opportunities for all students to participate. These organizations are varied so that each student may find some group or activity which is of special interest to him.

The Student Activities Office assists all campus groups and individuals in planning, conducting, and evaluating their activities and programs. Additional information may be obtained from this office.

The range of activities covers student government; departmental clubs; honorary and professional groups; religious organizations; service organizations; special interest groups; special events; and leadership training.

STUDENT GOVERNMENT

The central student government is composed of a president and vice-president of the student body, the Student Council, the Campus Judicial Board, and the following standing commissions and committees: Social Senate, Southern Spirit Council, Educational Affairs, International Affairs, Student Affairs, Student Rights, and Campus Service. The Student Council is composed of senators, elected by students living in identifiable living areas, and the president of each of the four undergraduate classes. This student government structure provides a channel for student opinion, approves the selection of student chairmen for special events such as New Student Week and Miniature United Nations Assembly, recommends student representatives to serve on all university committees, recommends allocation of the student activity fee, and promotes and fosters cultural and educational projects in keeping with the broadest philosophy of Southern Illinois University. In addition to this central structure, each residence hall and living area has a student government which concerns itself with the matters pertaining to resident living, co-ordination of the living unit educational and social programming, and development of a living environment conducive to the achievement of academic excellence.

DEPARTMENTAL CLUBS

Most of the departments on campus have their own interest groups.

These groups are open to all those interested in a particular academic area and provide opportunities for students to become better acquainted with the faculty and to investigate further their special interests.

HONORARY SOCIETIES AND PROFESSIONAL FRATERNITIES

Students outstanding in academic achievement or in special fields may be eligible to belong to many of the national and local honorary and professional organizations existing on Southern's campus. Membership serves as a means of becoming better acquainted with others in the same field and gives professional recognition often valuable after graduation.

RELIGIOUS ORGANIZATIONS

Every student at Southern has an opportunity to find his "church away from home." Many denominational groups have formed student religious foundations. Foundations close to campus provide space for relaxation, meetings, and religious services. All recognized groups send representatives to the Interfaith Council, which plans such activities as Religion-in-Life Week.

SERVICE ORGANIZATIONS

Southern's chapter of Alpha Phi Omega for men and the Girls' Rally organization for women, offer an opportunity for students to share in planning and providing many services for the campus during the school year. One such service is the publication by Girls' Rally of an annual calendar of events.

UNIVERSITY CENTER STUDENT PROGRAMMING BOARD

This board plans and executes educational, social, and recreational programming sponsored and co-sponsored by the five standing committees of the University Center: educational and cultural, special events, displays and publicity, dance, and small group activities. The groups assist in the development of a well-rounded social and cultural weekend program for the campus.

SPECIAL INTEREST GROUPS

Groups organized to bring together those individuals with similar interests provide opportunities to develop these interests and in some cases to represent the University in competitive meets or in other programs involving intercollegiate groups. Among the several groups in which students are encouraged to participate are debate teams, which represent the University in intercollegiate competition; the Southern Players for students with dramatic interests; and opera workshops, symphony orchestras, and

bands for those students with musical talent and interests. Other special interest groups include the AF ROTC Honor Guard, Rifle Team, and Angel Flight, an interest group for women. In addition, the Department of Recreation and Outdoor Education has a year-round recreational program of a varied nature. Hobby groups, such as the Chess Club, are organized in the University Center and in many of the living centers.

SPECIAL EVENTS

Many special events are planned and carried out by student steering committees. Chairmen of these events are elected in an all-campus election or appointed by the president of the Student Council. These chairmen, in turn, appoint chairmen of various committees for the events, and the committee chairmen comprise the steering committees. These events include New Student Week, Freshman Leadership Camp, High School Guest Day, Parents' Day, Homecoming, Spring Officers' Leadership Camp, Greek Week, Spring Festival, Miniature United Nations Assembly, and Student Values Week.

Outstanding weekend events are Homecoming in the fall, the Military Ball and the Theta Xi All-School Variety Show in the winter, and Spring Festival in May.

LEADERSHIP TRAINING

Special emphasis is placed on giving students opportunities to learn how they can best contribute to the well-being of others and to learn the importance of worth-while interpersonal relationships. In the fall a special leadership camp is held for entering students, and in the spring a special camp is held for officers of campus organizations. In addition many of the groups conduct their own workshops to discuss their own interests and needs and to develop leadership.

Edwardsville Campuses

The Edwardsville campuses encourage a broad student-activity program with opportunities for all students to participate. A number of organizations augment the student's educational experiences by assisting him in learning how to plan and how to carry out responsibilities, how to work with others, how to make wise use of leisure time, and how to develop leadership.

STUDENT GOVERNMENT

Student Councils are also organized at the Alton campus and at the East St. Louis campus, respectively. These Student Councils are the official organizations designated to represent students in student welfare, student

activities, student participation in university affairs, and student participation in university planning and administration. Each council consists of the student body president, vice-president, and sixteen members elected from the four classes.

The Social Senate or Social Committee is responsible for the social activity program of each campus. The group is a standing committee of the Student Council.

The Student Union Board or Student Center Committee is responsible for the scheduling of a program of activities in the Student Union or Student Center.

SPECIAL INTEREST GROUPS

Several groups are organized on campus to provide for the various intellectual, social, and physical needs of the student body. Students outstanding in academic achievement may be eligible to join honorary and professional organizations. Service organizations such as Alpha Phi Omega for men and Gamma Sigma Sigma for girls provide an opportunity for students to serve the University and their fellow students through their several projects. Divisional clubs or organizations give students opportunities to become better acquainted with others of similar interests. The History Club, the Commerce Club, the Music Educator's National Conference, the Student National Education Association, the Geography Club, and the Women's Recreation Association are examples of these divisional groups. Religious organizations are a means of finding similarities of interest and fellowship.

SPECIAL EVENTS

University events are planned each year by student committees which are selected or appointed by authorization of the Student Councils. These special events include New Student Orientation, Homecoming Week, Christmas Dance, Leadership Day, Spring Festival, and Variety Show.

Opportunities are provided throughout each year for training in leadership through participation in special events and planning programs for the benefit of others.

CO-ORDINATED SERVICES TO DISABLED STUDENTS

Southern Illinois University has made it possible for persons with severe physical disabilities to receive a higher education. Through the Office of Student Affairs, a co-ordinated program of special services is available to all disabled students. Its purpose is to assist the individual student in his personal, vocational, and social adjustment and development. Coun-

selors are available for discussion of problems and needs, interests, and abilities in these areas. In addition, the Carbondale campus has been modified to allow the disabled student independently to engage in all university functions. A part-time co-ordinator, who serves as a consultant to other departments, arranges the services of the University to meet the special needs of disabled students.

HOUSING

Co-ordinator of Housing, J. Albin Yokie, M.S. (Montana State)	1959
Assistant Co-ordinator of Housing, Guy J. Moore, B.S. (Southern Illinois)	1957
Assistant to the Co-ordinator of Housing, Faiz R. Daqqaq, M.S. (Southern Illinois)	1959
Supervisor of Food Services, Christina R. Richart, B.S. (James Millikin)	1953
Supervisor of Married Housing, Lester W. Sommers, B.S. (Southern Illinois)	1959
Supervisor of Physical Facilities, George F. Connell, B.S. (Southern Illinois)	1959
Assistant Supervisor, Off-Campus Housing, Anita B. Kuo, M.S. (California)	1959-61
Assistant Supervisor, Group Housing, Martha Jean Rasche	1959-61
Resident Adviser (Delta Chi) Pearl George	1960-61
Resident Adviser (Sigma Kappa) Frances Cross	1960-61
Resident Adviser (Delta Zeta) Grace Terry	1960-61
Resident Adviser (Alpha Gamma Delta) Margaret Coleman	1960-61
Resident Adviser (Sigma Pi) Ida Mae Bell, A.B. (Washburn)	1960-61
Resident Adviser (Tau Kappa Epsilon) Thomas E. Cassidy, M.A. (Notre Dame)	1960-61
Resident Adviser (Sigma Sigma Sigma) Kate Troupa	1960-61
Resident Adviser (Phi Sigma Kappa) Margaret White	1960-61
Resident Adviser (Theta Xi) Bertha M. Scott	1960-61
Head Resident of Thompson Point Residence Halls, John C. Pyper, M.A. (Michigan)	1960-61
Assistant Supervisor Marian E. Thrailkill, M.S. (Illinois)	1960-61
Resident Counselor (Felts Hall) Richard M. Wigley, M.A. (Southern Illinois)	1960-61
Resident Counselor (Bailey Hall) Raymond L. Foster, M.A. (Missouri)	1957

Resident Counselor (Pierce Hall) John McCall, Ph.D. (Florida State)	1957-61
Resident Counselor (Brown Hall) Carl L. Schweinfurth, M.A. (Florida)	1959-61
Resident Counselor (Bowyer Hall) Louis Sirois, M.A. (Denver)	1960
Resident Counselor (Steagall Hall) Margaret Mullikin, M.A. (Wichita)	1960-61
Head Resident (Woody Hall) Sandra Lutz, M.S. in Ed. (Southern Illinois)	1960-61
Head Resident (Southern Acres Residence Halls) Arthur E. Carlisle, B.S. (Southern Illinois)	1959-61

Carbondale Campuses

In the housing of students at Carbondale, the University is responsible for developing and operating university facilities to provide excellent food, comfortable and usable study and sleeping facilities, and adequate counseling and referral services. It also encourages private agencies to meet these same standards. But beyond that, Southern Illinois University is experimenting with ways to fuse the experiences of living with the learning that must go on in higher education. Thus, students who are practicing and carrying out self-government can learn the meaning of democratic ethics.

Assignments to university residences are made on a chronological basis. This is to say all assignments are made on a first-come, first-served basis. The exception to this is that a few spaces are reserved for some students from other countries and students receiving rehabilitation aid. Further, it is the policy of the University to reserve forty per cent of available spaces in the residence halls for new freshmen. However, these spaces for freshmen are in turn filled on a first-come, first-served basis. Applications for housing for the 1962-63 school year will be accepted after October 1, 1961.

Contracts for residents in all residence units will not be issued until the student is admitted to the University by the Admissions Office. It is also to be understood that admission to the University does in no way guarantee housing.

The rates charged by the University for the various housing units are established on the basis of current costs, and a sincere effort is made to keep these costs at a minimum. Nevertheless, all rates for university housing are subject to change from time to time upon a reappraisal of the cost structure and approval by the Board of Trustees.

UNIVERSITY HOUSING FOR UNMARRIED STUDENTS

Thompson Point Halls—At present six residence halls comprise the Thomp-

son Point Residence Area. Each of these permanent halls houses 122 students. Four of the halls house men, and two house women. Meal service is available in Lentz Hall, which is located in the Thompson Point residential area. Five additional buildings are under construction.

Dowdell Halls—These are temporary buildings for 209 men, with food service available at Woody Hall and Lentz Hall on a contract basis.

Illinois Avenue Halls—This facility is a temporary structure for 52 men. Food service is available at Woody Hall and Lentz Hall on a contract basis.

Woody Hall—This permanent facility is used to house 422 women, and food service is available within this hall.

Group Housing—At present the University provides four houses for sororities and five houses for fraternities in the group housing area. These units are owned and administered by the University. Six additional buildings are under construction.

Southern Acres Halls—Two men's residence halls, housing a total of 267 men, are located at Southern Acres, ten miles east of Carbondale. This temporary residential facility is designed primarily for those students who are enrolled in the division of Technical and Adult Education. Food service is available within this residence area.

Co-operatives—Presently two areas have facilities for co-operative housing. There are apartments for men and women in the Chautauqua and Southern Acres areas. These apartments are designed for students who wish to do their own preparation of meals and janitorial maintenance.

UNIVERSITY HOUSING FOR MARRIED STUDENTS

Southern Hills Apartments—These facilities provide permanent buildings to house a number of married students. Three types of apartments are available in this area: two bedroom, one bedroom, and efficiency units. All Southern Hills Apartments are furnished.

Southern Acres Apartments—The residence facilities of this area are located on the Southern Acres campus ten miles east of Carbondale. These units are composed of temporary buildings, and the apartments range from one- to three-bedroom units. All Southern Acres Apartments are unfurnished.

Chautauqua Street Apartments—A very limited number of unfurnished apartments may be available in this area which is adjacent to the campus.

Trailer Court—This area is designed for the rental of trailer spaces. Besides the rent, charges are made for laundry facilities, heat, and electricity. This residential area is located adjacent to the Southern Hills Apartment Area.

OFF-CAMPUS HOUSING

The University attempts to provide information concerning off-campus housing facilities. Lists of vacancies for single and married students inter-

ested in off-campus housing are available in the Housing Center. Such listed vacancies are classified as both approved and nonapproved university housing. Those facilities that are approved by the University meet minimum sanitation and safety standards. Signed contracts with householders are often required. It is suggested that renting by mail may not prove satisfactory.

Few housing areas off-campus offer meals, so that eating must be done in cafeterias or restaurants on or off campus. Among the listings of off-campus facilities available in the Housing Center are those of organized houses which elect officers and carry on group activities.

LIVING GROUP COUNCILS

Each organized living center has student officers who, with the group, plan and execute activities. In addition, each living center sends student representatives to student governing and programming councils. These groups include the University's residence halls, the off-campus living centers, nine fraternities, and five sororities.

FINANCIAL CONSIDERATIONS

Costs are subject, of necessity, to change without notice. Present yearly rates for university housing vary from \$666.00 for permanent residence halls to room only charges of \$228.00 for group housing, and \$135.00 to \$162.00 for temporary housing, depending on room and area.

Family housing rates vary from \$75.00 per month plus utilities in the two-bedroom apartments, through \$36.50 to \$46.50 for temporary units to \$19.00 plus utilities for a trailer space.

Off-campus yearly rates vary from \$175.00 to \$275.00 depending on size, distance from campus, number of roommates, number of privileges (such as cooking), and other factors.

Information concerning campus residence halls and off-campus living facilities may be secured from Student Housing Service, Southern Illinois University, Carbondale, Illinois.

Edwardsville Campuses

The University neither approves nor authorizes housing for the Alton and East St. Louis students. The Office of Student Affairs maintains a listing of rooms, apartments, and houses for rent or for sale. This list is maintained for the convenience of faculty members and students. All arrangements for housing and all business transactions in the matter of housing are the sole responsibility of the student and the owner of the housing facility.

University Services

AREA SERVICES DIVISION

Director William J. Tudor, Ph.D. (Iowa State)	1948
Assistant Director Rex D. Karnes, M.A. (Southern Illinois)	1955
Associate Professor Donald G. Hileman, Ph.D. (Illinois)	1955

As the only fully accredited institution of higher learning in the southern counties of Illinois, Southern Illinois University has special obligations to its region and therefore attempts to make its facilities available to various community, county, and regional groups. This work is carried on through the Area Services Division and its affiliated offices (the Alumni Office, the Broadcasting Service, the Community Development Service, the Information Service, the Photographic Service, and the Placement Service).

Meetings and conferences on the Carbondale campus under the sponsorship of responsible off-campus organizations and groups are arranged through the Area Services Division. In addition, the division arranges to take out into the communities of the area various programs, activities, and resources of the University which may be useful to the citizens of Southern Illinois.

The Area Services Division is not, however, to be confused with the divisions of Extension and Technical and Adult Education, which conduct the off-campus instructional activities of Southern Illinois University.

For information concerning the Area Services Division, address the Director, Area Services Division, Southern Illinois University, Carbondale, Illinois.

ALUMNI OFFICE

Director John Robert Odaniell, B.S. in Ed. (Southern Illinois)	1951
Field Representative Jacob William King, B.S. (Southern Illinois)	1955

Field Representative William F. Price, LL.D. (De Paul)	1960
Field Representative Warren Stookey, B.A. (Southern Illinois)	1961
Assistant Supervisor Jane M. Becker, B.S. (Missouri)	1959-60
Assistant Supervisor Jean England	1960

The Alumni Office keeps address and personal-information files and serves as the headquarters for the Alumni Association. The association is the general organization of the graduates and former students of Southern Illinois University, regardless of the campus or agency from which they received their instruction.

Any person who has attended Southern for as much as one quarter is eligible for membership in the association. Annual dues are \$4.00 for an individual or \$5.00 for a family if both are alumni of Southern. Life membership can be obtained for \$100 for an individual or \$125 for a family. Life membership dues can be paid in ten annual installments if desired. The *Southern Alumnus*, news bulletin and magazine editions, is published by the Alumni Office. The magazine is published for the dues-paying members of the association; the news bulletin is sent to all alumni.

In addition to the general association, there are local alumni clubs in Illinois and throughout the nation. These clubs serve as a nucleus to renew memories of and loyalties to the Alma Mater, to keep abreast with the progress and development of the University, and to join with the Alumni Association and its programs in a continuous effort to promote the advancement, usefulness, and prestige of Southern.

For information, address the Director, Alumni Office, Southern Illinois University, Carbondale, Illinois.

BROADCASTING SERVICE

Director Buren C. Robbins, M.A. (Iowa)	1950
Instructor Richard M. Uray, M.A. (Kent State)	1958
Lecturer Clifton T. Holman, B.S. (Boston)	1959-61
Lecturer William R. Mofield, M.A. (Columbia)	1959
Lecturer Ernest Walter Richter, M.A. (Michigan State)	1961
Lecturer Frederick O. Criminger, Jr., B.S. in Ed. (Southern Illinois)	1960-61

The University operates WSIU-FM, which makes programs available to a distance of seventy-five miles from Carbondale. The programs utilize the talents of students, faculty members, and other citizens of the area. They are designed for education, serial, and entertainment and are originated from complete and professionally equipped studios. Some programs are rebroadcasted over other stations.

The Broadcasting Service also supervises the regular presentation of the University's educational and service programs on area television stations.

COMMUNITY DEVELOPMENT SERVICE

Director Robert Edward Knittel, B.J. (Missouri)	1956
Co-ordinator Gene H. Graves, B.S. (Southern Illinois)	1959
Assistant Professor George Stabler, Ph.D. (Michigan State)	1960
Community Consultant James Burrell Aiken, M.S. in Ed. (Southern Illinois)	1956
Community Consultant Louis A. Bobka, M.S. in Ed. (Southern Illinois)	1959-60
Community Consultant Boyd Boucher Butler, B.S. (Southern Illinois)	1956
Community Consultant Robert Carlock, B.S. (Illinois)	1960
Community Consultant Robert Chase Child, M.A. (Southern Illinois)	1956
Community Consultant George L. Criminger, M.S. in Ed. (Southern Illinois)	1958
Community Consultant E. Frederick List, M.A. in Ed. (Washington University)	1957
Community Consultant Merton Stanton Redick, M.A. (Stetson)	1960-61
Community Consultant Frank H. Sehnert, B.S. (New Hampshire)	1955
Community Consultant Lila B. Teer, B.S. (Illinois)	1958-60
Community Consultant Henry Byrd Voges, B.S. (Washington University)	1959
Community Consultant Braxton B. Williams, B.S. (Southern Illinois)	1957

The Community Development Service has as its objectives the stabilization and enrichment of life in the small communities as well as in the large centers of the area. It attempts to make available to the people of the area within the context of their own communities and occupations the University's resources in social and economic knowledge and its leadership in the cultural and community arts.

To these ends it sets up projects designed to explore the specific problems of the communities and to train local leaders to be able in some measure to meet them.

The Community Development Service also invites to the University leaders in various fields in the communities of the area; and through small conferences and large conventions, as well as various other media, it attempts to bring into closer association the best thinking both of the area and of the University.

The Area Services Division maintains at East St. Louis a Community Development Office with a field director to aid in bringing about the full development of the human resources and natural wealth of the region.

INFORMATION SERVICE

Director William H. Lyons, M.A. (Colorado)	1951
Assistant Director Edmund C. Hasse, M.A. (Southern Illinois)	1953
Associate Professor Raymond J. Spahn, Ph.D. (Northwestern)	1957
Instructor John W. Allen, Emeritus (1956)	1942
Assistant Supervisor Charles H. Cox, B.S. (Illinois)	1961
Division Chief Robert W. Stokes	1959

The Information Service is the official news agency of the University. It was established to serve both the students and the University through the dissemination of news and items of general interest to newspapers, magazines, and radio and television stations. Primary purpose of the service is to keep the people of Illinois informed of the activities of the University and to make known the achievements of the students and staff.

There is also a branch of the University's Information Service at the Edwardsville campuses, the primary purpose of which is to keep the people of Illinois informed of the activities of the University and to make known the achievements of its students and staff.

PHOTOGRAPHIC SERVICE

The Photographic Service at Carbondale, an adjunct of the Information Service, is equipped and staffed to serve virtually every photographic need on the campus. Its services, available to all of the University, include news photography; teaching aids such as slides, photocopying, film strips, photomicrography, photostats, ozalid, and motion pictures; exhibits and murals; and identification photos, portraits, and color photography for special use. Some of the facilities of the laboratories are available to university courses in photography.

The Photographic Service at Edwardsville also is an adjunct of Information Service and serves the photographic needs of these campuses.

PLACEMENT SERVICE

Director Roye R. Bryant, Ed.D. (Washington University)	1948
Assistant Director Herall C. Largent, M.S. (Illinois)	1960
Professor Willis G. Cisne, A.M. (Chicago), Emeritus (1945)	1916

Assistant Director Robert B. Vokac, M.B.A. (Michigan)	1957
Supervisor David R. Van Horn, M.S. (Oklahoma State)	1957
Division Chief Jane R. Tierney, A.B. (Illinois)	1950-52; 1954

The Placement Service is maintained for the benefit of students, graduates, and others who have attended the University, and who desire to find employment in the teaching field, in the professions, or in business. It also serves employers by helping them locate personnel.

The facilities of the Placement Service are free to candidates seeking positions, as well as to employers. Each degree candidate is requested to register with the Placement Service during the fall quarter. This co-operation will aid the record-keeping function as well as the placement function of the office. Credentials are sent to prospective employers at the request of either the candidate or the employer.

The Placement Service is a member of the National Institutional Teacher Placement Association, the Illinois Institutional Teacher Placement Association, the Midwest College Placement Association, and the Association of School and College Placement.

Inquiries should be addressed to the Director, Placement Service, Southern Illinois University, Carbondale, Illinois, or to the Supervisor, Placement Service, Southern Illinois University, Edwardsville, Illinois.

DATA PROCESSING AND COMPUTING CENTER

Director, John W. Hamblen, Ph.D. (Purdue)	1961
Manager of Computing Division (Carbondale)	
William F. Blose, B.S. (Oklahoma State)	1958
Manager of Data Processing Division (Carbondale)	
Phillip J. Cochrane, B.S. (Illinois)	1956
Manager of Data Processing Division (Edwardsville)	
Robert E. Smith, B.S. (Southern Illinois)	1961
Assistant Manager, Computing Division (Carbondale)	
Thomas D. Purcell, M.S. (Southern Illinois)	1961

The University Data Processing and Computing Center was established July 1, 1961, to co-ordinate and expand the functions of the former Computing Center and Statistical Services units. The center is charged with the responsibility for all electronic computing and data processing machine systems within the University. Sufficient machine capacity will be maintained to serve the needs of all administrative, research, and instructional units. The staffs of the data processing divisions serve the

administrative units, primarily, whereas the prime duty of the computing division staff is to assist the researchers who need to make use of the electronic computer. Members of both staffs are involved in instructional programs. It is intended that every student who desires such shall have an opportunity to learn the fundamentals of the operation of electronic digital computers and data processing machines through credit or non-credit instruction.

FILM PRODUCTION

Supervisor Frank R. Paine, B.S. (Iowa State)	1960
Instructor Donald E. Staples, M.A. (Southern California)	1959

The film production unit, located on the Carbondale Campus, is an agency serving the entire University. Its purpose is to assist the various instructional units of the University desiring to participate in the production of educational films.

LECTURES, ENTERTAINMENTS, AND EXHIBITS

Carbondale Campuses

At Southern Illinois University, the general education of the student is advanced not only by the courses required for all degrees but also by a planned program of lectures, concerts, recitals, plays, and exhibits.

In order to establish in students a continuing interest in such matters, a freshman convocation is held each week. Outstanding lecturers, musicians, artists, scientists, explorers, and educators appear before the freshmen to acquaint them with developments in various fields of interest. Attendance is required of all freshmen.

In addition, the Special Meetings Service and the Carbondale Community Concert Association bring to the campus nationally known individuals and groups. Featured during the 1960-61 season were the Branko Krsmanovich Chorus of Yugoslavia, Gary Graffman, pianist, the Festival Quartet, and Yi-Kwei Sze, bass-baritone. All programs are admission free to students with activity tickets. Academic departments also bring to the campus nationally and internationally known experts in their fields for lectures and for conferences and workshops. Henry Steele Commager and Fred Rodell lectured on the campus under the sponsorship of the University Lectures Committee. A symposium on the works of James Joyce and D. H. Lawrence, with Richard Ellmann, Horace Gregory, Frederick Hoffman,

Marvan Magalaner, William York Tindall, and Lionel Trilling on the panel, was held the past year. A lecture series commemorating the work of John Dewey was sponsored by the College of Education. The Department of History celebrated the centennial of the beginning of the Civil War in a series extending from the spring of 1960 to the spring of 1961.

Southern Illinois University each year offers a wide variety of cultural events for the enjoyment of students, faculty, and residents of the Carbondale area. Approximately one hundred recitals and concerts are presented during the academic year, including programs sponsored by the Community Concert Association as well as the series of concerts by faculty and graduate students each Sunday at 4 P.M. Performances of solo and ensemble music and concerts of original compositions by members of the faculty provide a rich musical experience for the students and members of the community. Admission to these programs is free. In addition, such artists and groups as the following have appeared during the past several seasons: Eileen Farrell, Pierette Alarie, Maureen Forrester, singers; Eugene Istomin, Rudolph Firkusny, Grant Johannesen, Johana Harris, pianists; the St. Louis, Minneapolis, and New Orleans symphony orchestras; Carl Weinrich, Virgil Fox, organists; William Kroll, violinist; the Oxford String Quartet and the Eastman String Quartet; the Merce Cunningham Dance Group, the Joffrey Theatre Ballet; the Obernkirchern Children's Choir; Roy Harris, Ingolf Dahl, composers; and Mlle. Nadia Boulanger, composer, conductor, and musicologist.

Each year the University sponsors a Fine Arts Festival in which visiting performers, lectures in the various aspects of the fine arts, exhibits of important art collections, and programs by selected student, faculty, and guest artists are presented as part of an integrated festival. For a copy of the annual Fine Arts Festival brochure write to the Dean, School of Fine Arts, Southern Illinois University, Carbondale, Illinois.

Regular concerts are given by the Southern Illinois Symphony Orchestra, the Symphonic Band, the University Choir, the Madrigal Singers, the Women's Choir, and the Air Force ROTC Band and Choir. The University Opera Workshop presents several full-length performances each year plus programs of operatic excerpts. The University Oratorio Society annually presents two full-length oratorios.

Plays are presented throughout the year, including the summer session, by the Southern Players, an extracurricular dramatics organization sponsored by the Department of Theater. The Southern Players offer to all university students, regardless of academic affiliation, opportunities for participation in every phase of theater art: acting, direction, designing, lighting, stagecraft, and management. The following plays are representative of those produced in recent years: *The Crucible*, *Twelfth Night*,

Picnic, Lady in the Dark, A Streetcar Named Desire, Charley's Aunt, Desire Under the Elms, Romeo and Juliet, Shepherd of the Hills.

The Department of Art presents a year-round program of exhibitions in the Allyn Gallery. Exhibitions are chosen with the intention of providing students and interested public with a continuous experience of viewing and judging significant and representative works of art of contemporary or historical character. Exhibitions are presented from such agencies as the American Federation of Arts, the Smithsonian Institution, the Bertha Schaefer Gallery, and the Museum of Modern Art. Important works of such recognized artists as Picasso, Matisse, Rouault, Toulouse-Lautrec are not infrequently exhibited.

Edwardsville Campuses

Proximity to St. Louis affords students attending the Edwardsville campuses the advantage of cultural opportunities only a large city can offer: symphony concerts, recitals, opera, plays, lectures, an art museum, and a world-famous zoo; as well as professional baseball, basketball, football, and hockey.

Several prominent speakers, consultants, and musical events were brought to the campus during the 1960-61 school year to broaden the intellectual and aesthetic horizon of its students. Among the distinguished speakers were H. C. Thacher of Argonne National Laboratories; Dr. (Col.) George H. Knauf, U.S.A.F., head of the biomedical unit, Cape Canaveral; Wallace Fowlie, literary critic; Guy L. Bond, director, reading clinic, University of Minnesota; Raven I. McDavid, distinguished scholar of American dialect; Samuel Lubell, political analyst; John Logan, editor, *Chicago Choice*; and George Mylanos, head of arts and archeology, Washington University.

Consultants included Edmund Bacon, Philadelphia city planner; Howard Becker, sociologist, Community Studies, Inc., Kansas City; Earl Bolton, assistant to the president of the University of California; Sybil Moholy-Nagy, design historian; Hideo Sasaki, Harvard University landscape architect; Paolo Soleri, architect and sculptor; Ernest O. Melby, distinguished professor of education, Michigan State University; Howard McClusky, professor of psychology, University of Michigan; Alonzo Myers, retired head, Department of Higher Education, New York University; Harold Taylor, author and former president of Sarah Lawrence College; John X. Jamrich, center for the study of higher education, Michigan State University; John Dale Russell, director, office of institutional research, New York University; and Francis H. Horn, president, University of Rhode Island.

Presented in recitals were pianists Frina and Kenwyn Boldt, Barton Weber and Kent Warner, and violinist Kyung-Soo Won. The Chorophonic

Society appeared with the St. Louis Symphony Orchestra in two performances of Haydn's *Creation* and also gave two presentations of Handel's *Messiah*. On campus to direct a general clinic for high school clarinetists was Reginald Kell, world-famous English clarinetist, teacher, and conductor. Student recitals, art exhibits, plays, band concerts, and faculty lectures round out the student's cultural experiences.

Students with activity cards may attend programs of the Community Concert series at Alton, East St. Louis, Granite City, and Belleville, and the Alton Civic Orchestra Concert series.

LIBRARIES

Director of University Libraries Ralph E. McCoy, Ph.D. (Illinois) 1955

THE LIBRARY SYSTEM

The university library system consists of four subject libraries (Education, Humanities, Science, and Social Studies), an Audio-Visual Department, and a Textbook Rental Service, all housed in Morris Library. There are also branch libraries in the University School, the Vocational-Technical Institute, and at Little Grassy Camp. The libraries at Alton and East St. Louis are operated from administrative offices in Edwardsville. The work of acquiring and cataloging library materials for the Carbondale campus is performed by the Technical Services Division. Technical processing for the libraries at Alton and East St. Louis is performed at Edwardsville.

GENERAL RESOURCES

The university libraries contain approximately 450,000 volumes (including bound government documents, bound periodicals, and books) plus a collection of some 750,000 maps, a curriculum and textbook collection of more than 5,000 books and 3,000 curriculum guides and courses, an amateur play collection of approximately 1,200 items, a large file of sample tests and a collection of approximately 2,500 long-playing phonograph records. The libraries subscribe to some 3,200 periodicals and to 70 newspapers, some on microfilm. The libraries are depositories for federal and Illinois state printed documents and for the Army Map Service. They also subscribe to United Nations printed documents that are issued in microprint form and to British command papers. The Audio-Visual Department has approximately 3,500 films and filmstrips available for both

on- and off-campus use. A basic collection on American law, including the complete American digest system and the regional reporters, serves the graduate program of the University and provides a regional law library for Southern Illinois.

Carbondale Campuses

Assistant Director Elizabeth O. Stone, M.S. in L.S. (Illinois), Associate Professor	1929-36; 1946
Assistant Director Ferris S. Randall, B.L.S. (Chicago), Assistant Professor	1953

PUBLIC SERVICES

Education Librarian Zella Cundall, B.S. in L.S. (Illinois), Assistant Professor	1946
Assistant Education Librarian Ruth E. Bauner, M.S. (Illinois), Instructor	1956
Assistant Education Librarian Bill V. Isom, M.S. in Ed. (Southern Illinois), Instructor	1957
Humanities Librarian Alan M. Cohn, M.A. (Washington University), Assistant Professor	1955
Assistant Humanities Librarian Grace E. Kite, M.A. (Columbia), Assistant Professor	1941
Assistant Humanities Librarian Earl Tannenbaum, M.A. (Indiana), Assistant Professor	1957
Honorary Curator Harley K. Croessmann, O.D. (Northern Illinois College of Ophthalmology)	1959
Assistant Science Librarian Frank R. Chase, B.S.L.S., (Columbia), Instructor	1959
Assistant Science Librarian Paul L. Fore, M.S. (Iowa), Lecturer	1960
Social Studies Librarian John Clifford, Ph.D. (Iowa), Assistant Professor	1955
Assistant Social Studies Librarian Ruby Kerley, A.M. in L.S. (Michigan), Assistant Professor	1935-42; 1948
Assistant Social Studies Librarian Harold F. Smith, M.A. (Denver), Instructor	1957
Assistant Social Studies Librarian Nina M. Morton, B.S. in L.S. (Illinois), Lecturer	1954-55; 1956-58; 1959-62
Assistant Professor Roy Vail Jordan, M.A. (Wisconsin), Emeritus (1952)	1948
Circulation Librarian Charity H. Greene, M.S. (Illinois), Assistant Professor	1959

Vocational-Technical Institute Librarian Ella Mae Smith,
M.S. in Ed. (Southern Illinois), Lecturer 1958-61

TECHNICAL SERVICES

Catalog Librarian Kent U. Moore, A.M. (Columbia),
Assistant Professor 1952
Assistant Catalog Librarian Golda Hankla, M.A. (Illinois), Instructor 1938
Assistant Catalog Librarian Dorothy E. Heicke, M.A. in L.S.
(Illinois), Assistant Professor 1947
Assistant Catalog Librarian Gisela Heilpern, Ph.D. (Vienna),
Assistant Professor 1958
Assistant Catalog Librarian Annette L. Hoage, M.S.
(Illinois), Assistant Professor 1957
Order Librarian Ralph W. Bushee, M.A. (Illinois), Assistant Professor 1959
Assistant Order Librarian Siegfried Feller, M.A. (Michigan),
Lecturer 1960-61
Assistant Order Librarian John M. Lindsey, LL.B. (Illinois),
Lecturer 1960-61
Serials Librarian Leo R. Rift, M.A. (Denver), Instructor 1958
Assistant Serials Librarian David T. Ray, B.S. in L.S.
(Catholic), Lecturer 1959
Assistant Serials Librarian Mary L. Walker, M.A. (Illinois),
Lecturer 1958-59; 60
Assistant Serials Librarian Helen P. McReynolds, B.S. in Ed.
(Southern Illinois), Lecturer 1959-62

AUDIO-VISUAL SERVICES

Assistant Professor Donald A. Ingli, Ph.D. (Wisconsin) 1947
Assistant Supervisor James E. Sexson, M.S. in Ed. (Eastern Illinois) 1959

REGIONAL LIBRARY

Regional Librarian Harold J. Rath, M.S. (Illinois) 1959
Regional Librarian Marguerite Burns, M.A. (George Peabody) 1958

TEXTBOOK SERVICE

Manager Henry T. Stroman 1956

SPECIAL FACILITIES

Most of the books in the University Libraries are arranged in "open stacks," enabling students and faculty members to browse freely. Morris Library, on the Carbondale campus, provides a lounge for informal study

and for reading current newspapers and periodicals of a general nature. Graduate students have a special study area and locker facilities. Group study areas are also provided in each subject library. A browsing room, furnished informally, contains books of current information in many fields. Individual and group listening rooms permit students and faculty members to use the record collection in the Humanities Library. Preview rooms in the Audio-Visual Department provide for individual and group viewing of films.

Facilities for use of microfilm, microprint, and microcard are also provided in the subject libraries. An exhibit hall in Morris Library enables the libraries to display some of their choice materials. The libraries furnish specially selected collections to the University's dormitories. The staff is prepared to assist patrons in locating special books and other materials, in finding general and specific information on any topic, and in giving instruction in the use of bibliographical tools.

SPECIAL COLLECTIONS

Among the special resources of the University Libraries are the H. K. Croessmann Collection of James Joyce, the Jewell Stevens Collection of American and British literature, the Charles Feinberg Collection of Walt Whitman, and the Clint Clay Tilton Collection of Lincolniana.

The libraries have been enriched in recent years by some 1,200 volumes on folklore from the library of the late Alexander Krappe, and some 4,000 volumes dealing with American social, political, and religious life, contributed in 1957 by the Kern family of Belleville. The libraries are also building a collection of private press books as a result of the beneficence of Charles Feinberg of Detroit.

Special attention has been given in recent years to strengthening the libraries' holdings in those areas offering doctoral work. The libraries are also developing a special collection on the history, geography, and literature relating to the Mississippi Valley. This includes newspapers of Southern Illinois and neighboring states.

The University is one of eighteen members of the Human Relations Area Files, a major source of research findings in the behavioral sciences. The files, housed in the Social Studies Library, consist of more than one and one-half million documents relating to 170 world cultures.

The library's holdings in British and American history and literature have been strengthened greatly by a number of important series in microform: English books printed before 1700, as listed in the *Short-title Catalogue*; American imprints from 1639 to 1800, as listed in Evans' *American Bibliography*; the American Culture series; Three Centuries of English

and American Plays; American periodicals of the 18th and 19th centuries; Thomas Jefferson's personal library; British Sessional Papers, 1731 to 1900; and American consular dispatches.

AUDIO-VISUAL SERVICES

The Audio-Visual Department, located on the Carbondale campus, has two primary functions—on-campus and off-campus services. Campus users are provided with the various types of projection service. Films from Southern's library and many from other sources are provided for campus and extension classes.

The department, as an audio-visual center for Southern Illinois, provides aid to schools and other agencies. This aid includes both consultation service and rental of audio-visual materials, particularly films.

The department has equipment and laboratory facilities for producing educational audio-visual materials and for microfilming books and manuscript materials.

TEXTBOOK SERVICE

As a part of the services of the university libraries, a textbook rental system is operated for the benefit of students. Each quarter students are furnished with the basic textbooks required for their courses. The books are returned at the end of the quarter, but students interested in purchasing any of them for their personal libraries may do so at reduced costs.

ARCHIVES

As a first stage in the development of a Southern Illinois archival collection, the libraries have acquired approximately 1,200 volumes of Southern Illinois newspapers, representing 69 titles from 48 communities. The university libraries also have a small but growing collection of books, maps, manuscripts, and records dealing with Southern Illinois and are interested in acquiring further materials of this nature which will be useful in research in local history.

BIBLIOGRAPHICAL FACILITIES

To assist library patrons in locating books, there is a central card catalog which consists of an author, subject, and sometimes title entry for each book in the University Libraries. In addition, an author and topical (shelf list) catalog is maintained in each subject library. National and book

trade bibliographies, including the printed catalog of the Library of Congress, the British Museum, and the Bibliotheque Nationale, are located in the bibliography room in Morris Library. Periodical indexes and printed bibliographies on various subjects are housed in the subject libraries. The Audio-Visual Department maintains a printed catalog of its films.

REGIONAL LIBRARY CENTER

A regional library center, serving the public libraries of Southern Illinois through consultation and supplementary book service, has been established. The center is operated jointly by the University and the Illinois State Library.

Edwardsville Campuses

Head Librarian John C. Abbott, Ph.D. (Michigan),	
Associate Professor	1960
Assistant Professor Robert E. Dysinger, M.S.L.S.	1961
Bibliographer-Cataloger Eugene Herscher, M.S.	
(Columbia), Assistant Professor	1959
Assistant Librarian Ollie M. Williams, A.B. (Emory), Instructor	1958
Bibliographer-Cataloger Tieh Cheng Chin, M.A.L.S.	
(Washington), Lecturer	1959

Library facilities are provided at Alton and East St. Louis.

Most of the materials in the libraries are arranged in "open stacks" so that the students and faculty members may browse freely. The libraries provide for informal study, for reading current newspapers, periodicals, and reserve materials especially restricted for specific classes and courses. Preview areas are provided for audio-visual materials. Facilities for the use of microfilm, microprint, and microcards are also available. The library staff at each campus is prepared to assist patrons in locating specific materials, in finding general or special information on any topic, and in giving instruction in the use of the library and bibliographical tools.

The libraries at Alton and East St. Louis contain approximately 60,000 volumes, plus a collection of children's literature, phonograph records, curriculum guides, and courses of study; they subscribe to 625 periodicals and to 40 newspapers, including microfilm editions for permanent record; and they act as service agencies for materials available from the Carbondale campus.

BIBLIOGRAPHICAL FACILITIES

Central catalogs of author, subject, and title entries are provided for all books to assist library patrons in locating materials quickly. National

and trade bibliographies, including the catalog of the Library of Congress, are located in the Central Library at Edwardsville. Other trade bibliographies, periodical indexes, and printed bibliographies on various subjects are housed in the libraries at both Alton and East St. Louis.

TEXTBOOK RENTAL SERVICE

A textbook rental system is operated for the benefit of students as a service of the Auxiliary Enterprises. Students are provided with the basic textbooks required for their courses each quarter. The fee for this service is included in the fees paid at the time of registration. The books are returned at the end of the quarter. Students interested in purchasing any of the texts for their personal libraries may do so at a reduced cost.

MUSEUM

Professor John Charles Kelley, Ph.D. (Harvard), Director	1950
Associate Professor Pedro Armillas, Curator of Mesoamerican Archaeology, B.A. (Barcelona)	1960
Associate Professor Carroll L. Riley, Curator of Ethnology, Ph.D. (New Mexico)	1955
Assistant Professor Melvin L. Fowler, Curator of North American Archaeology, Ph.D. (Chicago)	1959
Assistant Professor Esther Bennett, Curator of Educational Services, Ph.D. (Cornell)	1949
Lecturer Ellen Abbott, Curator of Collections, M.A. (Southern Illinois)	1960-62
Research Assistant Russell Peithmann, Curator of Exhibits, M.A. (Southern Illinois)	1956
Research Assistant James W. Porter, Salvage Archaeologist, B.S. (Wisconsin)	1959-61

The Southern Illinois University Museum is located on the ground floor of Altgeld Hall on the Carbondale campus. It is dedicated to research and exhibition in all fields of natural sciences and social studies. The central theme of both research and exhibition is the natural environment and human occupancy of Southern Illinois. Permanent exhibits portray the natural environment and wildlife of the region, together with the various ways of life developed by Indians, pioneer Americans, and modern citizens. Considerable exhibit space is reserved for temporary exhibits which are changed frequently and which cover the entire museum field.

The museum has extensive collections in the field of the natural sciences, including specimens pertaining to such studies as herpetology,

mammalogy, ornithology, paleontology, mineralogy, and botany. In the social studies collections are included several thousand artifacts representative of 19th century life in Southern Illinois, documents of historical interest, and archaeological specimens illustrative of many of the prehistoric Indian cultures of Southern Illinois, northern Mexico, and the southwestern United States. Especially important is the large research collection of archaeological specimens from Mexico, gathered largely through the research work of the museum staff, but including also such lots as the important Zingg Collection from Chihuahua. Supplementing these materials are collections of Mexican medicinal plants, and ethnological specimens from the Tepehuan Indians of northern Mexico.

A new series of temporary exhibits has been developed featuring special changing exhibits illustrating the industries of this region and the part which they play in the development and maintenance of the present day human occupation.

In the field of history, pioneer life is vividly portrayed by a series of miniature dioramas as well as by larger displays which feature pioneer arts and crafts. Other exhibits depict the wildlife of Southern Illinois in natural habitats. In the field of art, the wood carvings of Fred Meyers have attracted much attention. Six of these carvings depict typical Southern Illinois pioneers, while others are replicas of extinct and living animals.

The research program of the museum emphasizes work in zoology, botany, geology, history, and anthropology. One formal museum research project has already carried out several archaeological expeditions in Durango, Mexico, and has sponsored related field work in ethnology, botany, zoology, and geology. A second formal museum research project concentrates on the archaeology of Southern Illinois, in co-operation with the programs of the state and federal highway systems and the National Park Service.

The museum offers a variety of extension services. Museum teaching units and individual specimens are available for loan to Southern Illinois schools and to the University's departments. Plans are being made for the establishment of branch museums in selected Southern Illinois cities. The museum has a co-operative exhibit program involving the preparation of departmental displays in cases adjoining the classrooms of other university academic departments. Museum staff members are available for public or classroom lectures in their respective fields. The museum, as a repository for specimens and collections in the natural sciences and social studies, invites donations of specimens and collections; long-term loans of such materials will be gratefully accepted. Irreplaceable scientific and historical specimens will be given proper treatment and storage in the museum to assure their preservation as well as to make them accessible to the people of this region.

The museum is open to visitors from 8:30 A.M. to 4:30 P.M. on week-days, on Saturdays from 9:00 A.M. until noon, and on Sundays from 2:30 P.M. to 4:30 P.M. Special hours may be arranged. Conducted tours of the exhibits may be scheduled for classes and other groups. A newly opened Museum Shop features for sale at nominal prices unusual and educational curios, collector's items, and scientific books for children and adults.

Museum materials are available through loan and traveling exhibits to all agencies of the University.

PHYSICAL PLANT

Director W. A. Howe, M.S. (Illinois)	1949
Assistant Professor William M. Marberry, A.M. (Illinois)	1939

The Physical Plant Office is concerned with the operation and maintenance of the physical plant, including the maintenance and repair of buildings, utilities distribution systems, equipment, and other property; the care of sidewalks, drives, lawns, and shrubbery; the operation of the heating plant and the transportation service; and the maintenance of general safety and sanitary conditions in the buildings and on the grounds.

PRINTING AND PUBLISHING

The University owns and operates one well-equipped printing plant and two publishing agencies—all located on the Carbondale campus.

PRINTING SERVICE

Manager Howard Newton Pepple, M.S. in Ed. (Southern Illinois)	1957
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The Printing Service, located on the Carbondale campus, is equipped and staffed to handle virtually all of the printing needs of the University. Its services are available to all schools, divisions, departments, and offices of the University. In addition to the offset and letterpress printing, art service is available.

A printing and art service is available on the Edwardsville campuses to faculty and staff members and to student organizations.

GENERAL PUBLICATIONS

Co-ordinator Earl E. Parkhill, B.S. (Southern Illinois)	1950
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Assistant Co-ordinator A. B. Mifflin, M.S. (Southern Illinois),
Assistant Instructor

1957

General Publications co-ordinates, supervises, edits, and distributes catalogs, bulletins, brochures, pamphlets, and other publications concerning the University and its programs. Its services are equally available, in whole or in part, to all of the University's functions.

UNIVERSITY PRESS

Director Vernon A. Sternberg, M.A. (Wisconsin),

Assistant Professor

1956

Assistant Professor Sina K. Spiker, Ph.D. (Wisconsin)

1956

Lecturer James E. McSherry, B.A. (Southern Illinois)

1960

Assistant Supervisor Marilyn E. Hails

1959

Assistant Supervisor Walter L. Kent, B.S. (Southern Illinois)

1960

The University Press, located on the Carbondale campus, was established in 1953 to carry out the publishing function of the University. Since 1958, the press has been a member of the Association of American University Presses. Publications of the press include a number of monograph series and an Occasional Publications series, as well as works of scholarship of more general interest. A list of press books may be found in the publishers' *Trade List Annual*.

The press also serves the educational units of the University requiring editorial assistance for their occasional publications.

SYSTEMS AND PROCEDURES

Co-ordinator R. D. Isbell, B.A. (Southern Illinois)

1960

The Systems and Procedures organization seeks the most effective and efficient methods of data collection and communication. Through the study of procedures and functions of various units of the University, it endeavors to eliminate interdepartmental duplication of records and efforts. This organization works with various departments and divisions in the co-ordination and design of systems, making recommendations for improved methods of securing and recording data for processing.

Inquiries should be addressed to the Co-ordinator of Systems and Procedures, Southern Illinois University, Carbondale, Illinois.

UNIVERSITY ARCHITECT

Director Charles M. Pulley, B.S. (Illinois)	1951
Assistant University Architect John D. Randall, B.S. (Illinois Institute of Technology)	1961
Supervisor Carl Edward Bretscher, B.S. (Illinois)	1957
Construction Supervisor Willard C. Hart, B.S. (Illinois)	1950
Associate Professor Herbert Dennis White, Ph.D., Mus.D. (Leipzig)	1957
Landscape Architect John F. H. Lonergan, A.B. (Illinois)	1950
Instructor Richard W. Anschutz, B.S. (Kansas)	1956
Supervisor Harry W. McMurtrie, B.Ed. (Southern Illinois)	1961

The office of the University Architect is located on the Carbondale campus but is concerned with the design and construction of all the University's buildings and with the landscaping of the campuses. The members of the staff are available to advise and instruct students interested in architecture.

Department of Nursing

Professor Virginia H. Harrison, M.S.N.E. (St. Louis), Chairman	1955
Associate Professor Mable G. Burton, M.P.H. (Minnesota)	1959
Assistant Professor Carmin Jimison, M.S. (Western Reserve)	1959
Assistant Professor Mary A. Wyatt, M.S. (Washington University)	1957
Lecturer Kathleen Bellamy, M.S. (Southern Illinois)	1957-59; 1960
Lecturer Edith W. Breniman, M.S. (Washington University)	1960-62
Lecturer Renetta Healy, R.N. (Washington University)	1960-62
Lecturer Kay Holder, B.S. (Southern Illinois)	1960-61
Lecturer Mary Grace Parker, M.S. (Yale)	1960-61
Lecturer Mary L. Perkins, B.S. (Southern Illinois)	1960-61
Lecturer Sophronia Williams, B.S. (Washington University)	1961-62

The Department of Nursing, located on the Carbondale campus, is a separate unit in the University's educational structure, not attached to any school or college.

Two programs, both leading to the Bachelor of Science degree, are offered by the department. The basic professional program is open to qualified high school graduates who wish to become registered professional nurses. This program covers a period of fourteen quarters, or four academic years plus two summers. Students who wish to carry a reduced load or to take additional work in some special area should plan to attend the summer session following the freshman year. They may also prolong their program to five or more years if necessary and desirable in terms of their specific needs.

The supplemental program for registered nurses is open to men and women who are graduates of associate degree or diploma (hospital) schools of nursing and are otherwise eligible for admission to study in the department.

Students in both programs must meet the University's general educational requirements, as well as those established by the department. The major is nursing; no minor is required.

The department conducts institutes and work conferences for practicing nurses and other members of the health team insofar as possible and desirable to meet community needs.

PHILOSOPHY

The faculty believes that nursing includes care of the sick, promotion of health, prevention of disease, and rehabilitation; that the nurse works with other members of the team to achieve optimum health in the local community, the state, and the nation; and that the nurse is most effective when qualified through professional education in an institution whose sole purposes are education, service, and research.

The faculty members are agreed that professional nurses should have a firm foundation in the biological, physical, and social sciences, and that the art and science of nursing are built upon these; they believe that professional education for nursing should assist the student to develop skill in communication, an appreciation of moral, esthetic, and spiritual values, preparation for intelligent citizenship, and the ability to render quality care to patients and their families in any branch of nursing.

The faculty also believes that professional nurses are best developed in a warm and accepting atmosphere where there is a sincere interest in the students and where each is regarded as an important individual.

The faculty assumes responsibility for the quality of its programs, which are planned to help the student gain maturity and judgment, as well as the ability to give nursing care of a high calibre.

PURPOSE AND OBJECTIVES

The purpose of the Department of Nursing is to increase and improve nursing services. It provides general and professional education to enable the practitioner to give skilled nursing service while assisting him to develop in accordance with his own capabilities and interests. In addition to learning to give comprehensive nursing care, the student is guided in developing mature citizenship concepts, understanding of man and his environment, cultural appreciation, and the ability to solve problems.

The department aims:

1. To attract, inform and select young men and women with potential for professional nursing;
2. To offer general and professional education to the end that students may be prepared for safe nursing care under supervision in any field of nursing;

3. To provide a sound background for graduate work leading to a master's or higher degree;
4. To assist students to develop some understanding of self and others, skill in human relations and communications, understanding of democratic principles and practices, and appreciation of moral and cultural values;
5. To provide a favorable climate in which personal growth and development may be fostered;
6. To stimulate and encourage the continued growth of students and faculty in responsibility for their own conduct;
7. To assist students and faculty members to develop powers of critical thinking.

GRANTS AND LOANS

Students in nursing are eligible for university scholarship and activity awards, as described elsewhere in this bulletin.

Through the generosity of several donors, scholarships and prizes are given to outstanding freshmen, sophomore, and senior students in their respective classes. They are paid directly to the students selected by the faculty on the basis of academic achievement, potential for professional nursing, leadership, and financial need.

The Elsie Bain Scholarship in Nursing, donated by the Women's Auxiliary of Holden Hospital, Carbondale, provides tuition and fees for the four-year basic program. The recipient is selected by a joint committee of the auxiliary and the faculty of the department.

The Illinois Department of Public Welfare Educational Grants in Nursing are available to students who are recommended by the chairman. Providing tuition, fees, books, cost of uniforms, and a monthly stipend, these may be used by students in the basic program for four academic years, or thirty-six months. Registered nurses may also apply for such grants. Further information may be obtained from the Department of Public Welfare, Springfield, Illinois, or the office of the Department of Nursing, 130 Home Economics Building, Southern Illinois University, Carbondale, Illinois.

The department administers a small-loan fund established in the memory of Barbara Teske. Loans are usually of a short-term nature, and no interest is charged. Students may also apply for loans from the University at a low interest rate.

A limited number of United States Public Health Service grants providing tuition, fees, dependency allowance, and monthly stipends are available to registered nurses in their senior year of full-time study. Applicants must have had experience in administration, teaching, or super-

vision, or be definitely committed to such a position. No student may receive more than twelve months of governmental assistance under this plan. For further information, or for application blanks, address the Chairman, Department of Nursing, Southern Illinois University, Carbondale, Illinois.

ADVISEMENT AND COUNSELING

Advisement is done in the offices of the faculty members. New students are assigned to an adviser for their first quarter of work; after that, they may elect to continue with the assigned adviser or change to another.

Students are urged to see their advisers at regular intervals, as well as when problems arise.

GRADUATION

Candidates for the Bachelor of Science degree must meet all requirements of the University for graduation. Students completing the basic professional program must pass the state licensing examinations in order to become registered nurses.

ACCREDITATION

The basic program is fully approved by the Illinois Department of Registration and Education.

When, in the opinion of the faculty, the separate programs are eligible for accreditation by the National League for Nursing, it is anticipated that approval will be granted.

BASIC PROFESSIONAL CURRICULUM

Students interested in this program should acquire a strong academic background in high school. At least three units of English, two or more of mathematics, and one or more each of biology, chemistry, and social studies should be included. Foreign language is not required, but a knowledge of Latin is helpful. Typing is also advisable.

Students admitted to the University from the lower one-half of their high school class are not admitted directly to Nursing, but may transfer to this department when the required grade average, "C," has been attained. Such students should consult one of the advisers in the Department of Nursing in order to plan their programs and lose as little time as possible in transfer.

Students who have completed part of a diploma or associate degree program may be admitted to this division, but courses may need to be repeated if they are not equivalent to those required by this University.

Any applicant whose placement tests indicate need for additional

preparation in mathematics, reading, or English should plan to take more than fourteen quarters to complete the program. Such students should attend summer school immediately following graduation from high school, to allow time for their remedial work.

Transfer

Beginning courses in the basic professional curriculum may be taken in another accredited college or university if they are of content and quality similar to those required by this University. Some modification of the program may be necessary, and this may lengthen the time required for completion of the program. Students planning to attend another college or university before coming to Southern should follow the prescribed curriculum as closely as possible. An adviser in this department should be consulted if there is any doubt as to the acceptability of the separate courses.

Promotion

Students in nursing are subject to the University's general policies concerning probation.

To be admitted to the sophomore program of classwork and clinical experience, students must have achieved an over-all average of "C." At least a "C" is required in all professional courses. Students must also be recommended by the faculty before such advancement is made.

Sophomores, juniors, and seniors are placed on departmental scholastic probation if they fail to attain a "C" average in any quarter. An average of "C" or better is required in all nursing courses; a grade of "D" or "E" will necessitate repetition of the course. Students who fail to maintain a "C" average for two successive quarters will be dropped from nursing. Such students may be re-admitted when the desired grade average has been attained.

Students are evaluated on the basis of mental and physical health, personality and character traits, academic achievement, and progress toward professional maturity. Any student who, in the judgment of the faculty, does not appear to warrant promotion will be advised to withdraw from the program and seek success in another field or in another type of nursing school. Students who are not promoted to the clinical portion of the curriculum should consult their advisers as to the best possible solution to their problems.

Curriculum

The program of studies is subject to change at the discretion of the faculty if considered desirable in terms of the demands of a changing society.

The program which follows is a typical one and may be modified to meet individual needs.

FRESHMAN YEAR

FALL		WINTER		SPRING	
English 101	3	English 102	3	English 103	3
Chemistry 110	4	Chemistry 240	4	Physiology 300	4
Health Education 100	4	Art or Music	3	Food and Nutrition 103	4
Sociology 101	5	Speech 101	4	Psychology 201	4
Nursing 101	1	Nursing 102	2	Physical Education	1
Physical Education	1	Physical Education	1	Freshman Convocation	0
Freshman Convocation	0	Freshman Convocation	0		
	—		—		—
	18		17		16

SOPHOMORE YEAR

FALL		WINTER		SPRING	
Physiology 209	5	Microbiology 100	5	Literature	3
Nursing 219	4	Nursing 220	2	Soc. Science	5
Nursing 224	2	Nursing 226	4	Nursing 230	4
Mathematics	4	Nursing 226A	2	Nursing 230A	4
Social Science	3	Literature	3	Physical Education	1
		Physical Education	1		
	—		—		—
	18		17		17

SUMMER SESSION

Nursing 240	4
Nursing 240A	4
	—
	8

JUNIOR YEAR

FALL (U. OF I.)		WINTER (U. OF I.)		SPRING (U. OF I.)	
Nursing 200	3	Nursing 202	4	Nursing 207	4
Nursing 201	6	Nursing 205	4	Nursing 209	8
Nursing 204	6	Nursing 206	4		
		Social Problems 131	5		
	—		—		—
	15		17		12

SUMMER SESSION

Nursing 325	4
Nursing 325A	8
	—
	12

SENIOR YEAR

FALL		WINTER		SPRING	
Nursing 375	4	Nursing 361	4	Nursing 309	4
Nursing 380	8	Nursing 361A	6	Nursing 354	4
		Government 101	5	Nursing 362	8
		Physical Education	1		
	—		—		—
	12		16		16

The first year is spent in general education and pre-professional courses to prepare the student for the care of patients. During the ensuing three years, instruction and experiences are provided in medical, surgical, obstetric, pediatric, tuberculosis, psychiatric, and public health nursing. Comprehensive nursing experience is offered during the senior year. Instruction and experience in administration are obtained in the final quarter of the program.

Hours of nursing practice vary from six hours a week in the beginning course to twenty-four hours in some of the more advanced hospital experiences. During the psychiatric and public health assignments full time is required; this includes conferences, classes, and supervised or independent practice, for a total of thirty to forty hours weekly.

Junior students spend one academic year at the University of Illinois College of Nursing in Chicago. Application for admission to that university is made during the summer and must be accompanied by health record, recommendation from the chairman, and transcript of credits.

Co-operating Hospitals and Agencies

Sophomore and senior clinical experiences are obtained at Doctors' Hospital, Carbondale. At the present time the facilities of Anna State Hospital are used for psychiatric nursing, while public health field experience is undertaken at the East Side Health District, East St. Louis, Illinois. The University of Illinois Research and Educational Hospitals are used for obstetric, pediatric, tuberculosis, and advanced medical-surgical nursing.

The Home Economics Child Development Laboratory facilities are utilized during the growth and development course in the sophomore year.

Fees and Other Costs

Students in nursing pay the usual Southern Illinois University fees when they are enrolled therein and the usual University of Illinois fees when they are registered at that institution.

Students may live in university residence halls, at home, with relatives, or in off-campus housing while registered in either Southern Illinois University or the University of Illinois. Information concerning costs at Southern may be found elsewhere in this bulletin. Maintenance in the residence hall in Chicago is presently \$100 per month.

Students are expected to pay their travel expenses to and from hospitals and public health agencies; to provide themselves with uniforms, and with dark sweaters, skirts, and coats for the public health experience; and to pay for their own maintenance.

Students may drive their own cars during the public health experi-

ence; mileage on duty is reimbursed by the agency. Adequate insurance coverage is required, and cars must be registered with the University.

SUPPLEMENTAL PROGRAM FOR REGISTERED NURSES

This program is designed to assist nurses in developing competencies essential for the new roles of professional practitioners today and for preparing for specialization on the graduate level.

Applicants for admission should be in good physical condition, have graduated from a state-accredited school of nursing, and be licensed to practice in some state or territory of the United States or foreign country. They are required to write the National League for Nursing Graduate Nurse Examination, Plan C, either before admission or during the first quarter they are enrolled as full-time students at the University. Students who are attempting to meet degree requirements through part-time study must write the examination upon completion of their first sixteen quarter hours. Application cards, signed by the chairman, may be obtained in the departmental office, 130 Home Economics Building, Southern Illinois University, Carbondale, Illinois.

Evidence of license to practice must be submitted, as well as transcripts of credit from high school, school of nursing, and any college or university previously attended.

Students who have attended another college or university and whose average grade is less than 3.0 (C) will not be admitted directly to nursing, but may be transferred to this department when the required average has been attained.

The amount of credit allowed for the diploma or associate degree program is determined on an individual basis. Among the factors to be considered are the level of achievement during the student's first quarter of work at the University, the record made in previous post-high-school education, and the length of time since graduation from the school of nursing. The maximum amount of credit which may be granted is sixty-four hours.

The program may be completed in two and one-quarter years if the student carries a normal 16-hour load and if maximum credit is allowed.

Employment may be obtained in general or special hospitals in Carbondale or surrounding towns or in the University Health Service. The amount of part-time work may be restricted, or the student may be asked to take a limited program in the University unless grades are kept at a satisfactory level. University policies concerning student employment may be found in this bulletin.

Students are required to acquire an over-all average grade of at least 3.0 (C) and to make a "C" or better in all courses in nursing. Students

failing to perform at this level will be dropped from enrollment in the department, but they may be re-admitted when the required average has been reached. Nursing courses in which a grade of "D" or lower has been made must be repeated.

Fees for students in this program are the same as for any other student in residence. Uniforms must be provided by the student both for the hospital and the public health experience. For the latter, navy blue or black sweaters and skirts, white blouses, dark shoes, and topcoat may be worn. Students taking public health experience in a county agency will be required to have cars and must be covered by adequate insurance protection. Mileage on duty will be reimbursed by the agency.

Candidates are advised to complete the general education courses before embarking upon their major studies.

In addition to the University's general studies requirements, the following must be completed with satisfactory grades: Nursing 305, 309, 310, 311, 312, 375, 380, 385, 386; Health Education 355; Psychology 201 and one upper-division course in psychology; Speech 101; one upper-division course in sociology; one upper-division course in physiology or microbiology (Physiology 300, 315, 316, 317, or Microbiology 301, 325, 326).

COURSE DESCRIPTIONS

- 101-1. INTRODUCTION TO NURSING I. An orientation to the philosophy and functions of nursing in contemporary society.
- 102-2. INTRODUCTION TO NURSING II. Continuation of Nursing 101.
- 219-4. GROWTH AND DEVELOPMENT OF THE INDIVIDUAL I. Physical, social, emotional, intellectual and spiritual development of the normal individual from birth through adolescence. Prerequisites: Food and Nutrition 103, Psychology 201.
- 220-2. GROWTH AND DEVELOPMENT OF THE INDIVIDUAL II. Continuation of 219. Young adult through senescence. Prerequisite: Nursing 219.
- 224-2. FOUNDATIONS OF PATIENT CARE. Application of selected principles of biological, physical, social and medical sciences as they contribute to patient care. Lecture, discussion, laboratory. Prerequisite: Sophomore standing. Majors only.
- 226-4. MEDICAL-SURGICAL NURSING I. Beginning study of general medical and surgical nursing and care of patients with diseases of the gastrointestinal system. Pharmacology, diet therapy, social and preventive aspects are integrated throughout. Prerequisites: Nursing 224, Microbiology 100, preceding or parallel.
- 226A-2. MEDICAL-SURGICAL NURSING I PRACTICUM. Supervised experience correlated with Nursing 226 (6 hours weekly). Prerequisite: same as Nursing 226.
- 230-4. MEDICAL-SURGICAL NURSING II. Nursing care of patients with pathological conditions of the breast and the cardiovascular and res-

- piratory systems (except tuberculosis). Pharmacology, diet therapy, social and preventive aspects are integrated throughout. Prerequisites: Nursing 226 and 226A.
- 230A-4. MEDICAL-SURGICAL NURSING II PRACTICUM. Supervised experience and clinical conferences correlated with Nursing 230 (17 hours weekly). Prerequisites: same as Nursing 230.
- 240-4. MEDICAL-SURGICAL NURSING III. Nursing care of patients with diseases of the eye and ear, the reproductive, urinary, endocrine and integumentary systems. Pharmacology, diet therapy, social and preventive aspects are integrated throughout. Prerequisites: Nursing 230 and 230A.
- 240A-4. MEDICAL-SURGICAL NURSING III PRACTICUM. Supervised experience and clinical conferences correlated with Nursing 240 (26 hours weekly). Prerequisites: same as for Nursing 240.
- 305-4. HISTORY AND PHILOSOPHY OF NURSING. Historical approach to understanding of the broad movements and trends in nursing, and philosophical concepts underlying current developments. Prerequisite: graduate nurse status.
- 309-4. INTRODUCTION TO ADMINISTRATION IN NURSING SERVICES. Principles of administration applied to hospitals and other nursing services. Prerequisite: registered nurses or senior basic professional students only.
- 310-4. NORMAL GROWTH AND DEVELOPMENT. This course aims to increase the graduate nurse's understanding of physical, emotional, mental and social changes normally occurring from birth to old age. Prerequisites: graduate nurse status and General Psychology.
- 311-4. INTERPERSONAL RELATIONSHIPS IN NURSING. A course designed to help the students adapt to changing situations, and to accept and understand themselves and others. Prerequisites: graduate nurse status and General Psychology.
- 312-4. TEACHING IN NURSING. Techniques of teaching applied to patients and families, as well as groups. Prerequisites: graduate nurse status and General Psychology.
- 325-4. PSYCHIATRIC NURSING. Lectures and conferences in the care of the mentally ill. Prerequisite: Senior standing.
- 325A-8. PSYCHIATRIC NURSING PRACTICUM. Supervised experience and clinical conferences correlated with Nursing 325. Prerequisite: same as Nursing 325.
- 354-4. CURRENT DEVELOPMENTS. A study of problems in nursing service and nursing education and what the profession is doing in their solution. Majors only.
- 361-4. COMPREHENSIVE NURSING. Conferences in the nursing care problems of selected patients. Prerequisites: Nursing 375-380.
- 361A-6. COMPREHENSIVE NURSING PRACTICUM. One quarter of assignment to total patient care correlated with Nursing 361 (24 hours weekly). Prerequisite: same as for Nursing 361.
- 362-8. SENIOR NURSING. Supervised experiences and conferences correlated with Nursing 309 (32 hours weekly).
- 375-4. PRINCIPLES OF PUBLIC HEALTH NURSING. Objectives, principles and practices in public health nursing, application of nursing science and art to family and community living. Prerequisites: Senior standing;

Nursing 310, 311, 312, Health Ed. 355 (preceding or concurrent) or consent of Chairman.

380-8. PUBLIC HEALTH NURSING PRACTICUM. One quarter's supervised experience in a public health agency conducting a generalized program; includes orientation, demonstrations and conferences. Prerequisite: Nursing 375 (preceding or concurrent); Health Ed. 355, or consent of the Chairman.

385-2. GENERAL NURSING. A seminar in comprehensive care in the community and the hospital, in the areas ranging from prevention to rehabilitation. Principles of public health nursing are applied throughout the course. Prerequisites: Nursing 375, 380.

386-2 to 6. GENERAL NURSING PRACTICUM. Designed to help the graduate nurse to improve her knowledge, understanding and practice in comprehensive nursing care. Prerequisites: Senior standing and Nursing 385.

Air Force Reserve Officers Training Corps

Colonel George H. Blase, M.A. (Missouri), Professor	1959
Lieutenant Colonel Paul R. McDonald, B.E.D. (Southern Illinois), Assistant Professor	1959
Lieutenant Colonel William H. Rankin, B.A. (Syracuse), Assistant Professor	1959
Major Henry C. Cade, B.A. (Arizona), Assistant Professor	1959
Major Harry Denzel, B.S. (Maryland), Assistant Professor	1960
Major William M. Drennan, M.E.D. (Missouri), Assistant Professor	1960
Major Joseph N. Goodman, Assistant Professor	1959
Major John R. Mancus, Assistant Professor	1960
Major Raymond D. Wiley	1957-61
Captain Wallace K. Andrews, B.S. (Decatur, Illinois), Assistant Professor	1960
Captain Harold L. Maxwell, M.B.E. (Mississippi), Assistant Professor	1960
Captain Gary W. Robbins, B.S. (USMA), Assistant Professor	1958
Captain John J. Voynich, B.S. (Maryland)	1959
Master Sergeant Beavin E. Parson, Instructor	1959-61
Technical Sergeant Fred Tolby, Instructor	1960
Technical Sergeant Jerry S. Witt, Instructor	1959
Staff Sergeant Robert K. Bumgardner, Instructor	1960
Staff Sergeant Robert L. Kuly, Instructor	1958
Airman First Class Armand V. Hanff, Instructor	1960
Airman First Class Walter C. Waggoner, Instructor	1959

The Air Force ROTC Detachment at Southern Illinois University is a (senior division) ROTC unit administered by commissioned officers of

the USAF, assigned by the Department of the Air Force with the approval of the University. These officers are appointed as members of the University's instructional staff. The senior officer is designated as Professor of Air Science and Detachment Commander. Airmen are assigned to assist in practical instruction and administration and to supervise the care of federal property. The University Corps of Cadets consists of all students pursuing AF ROTC training. All AF ROTC cadets retain their civilian status until they are commissioned as United States Air Force Reserve Officers and are ordered to active military service.

The course of study is divided into the basic course, covering the first two years, and the advanced course, covering the junior year, summer training unit, and the senior year in that order. It is designed to provide the fundamental training, both personal and professional, which will best equip a cadet to become a well-rounded junior Air Force officer possessing a high growth potential and also to develop and stimulate a growing desire on his part to enter the Air Force flight training program. The basic course is designed with two additional objectives in mind: first, to interest the cadet in the possibility of continuing in the advanced AF ROTC and ultimately making the Air Force his career; and second, to provide him with "Space Age" citizenship training of long-range value to the Air Force whether he returns to civil life or becomes a member of the USAF. Emphasis is given throughout the courses, both in theory and practice, to outlining the leadership and managerial duties and responsibilities of squadron level officers, to improving oral and written expression, and to learning techniques of the problem-solving process.

In addition to the four-year AF ROTC program offered for academic credit, the Division of Air Science indorses or directly sponsors a number of extracurricular activities. The Arnold Air Society is open to selected cadets of all four years, and is a national professional fraternity. Membership in the Angel Flight, an auxiliary of the Cadet Corps, is open to selected undergraduate women. The Rifle Team, while coached and sponsored by the detachment, is a varsity function. Other activities open to cadets are the Honor Guard, the Band, and the Singing Squadron. Cadets may also compete for numerous trophies and awards available to members of the Cadet Corps.

Three hours of Air Science are required for all entering male students who undertake their first college work by entering Southern Illinois University (Carbondale campus) unless they are veterans, over twenty-five years of age at the time of entrance, or excused from this requirement by the University Military Policies Committee. Male students who transfer fewer than forty-five hours of acceptable credit from the Edwardsville campuses of Southern Illinois University, from the Vocational-Technical Institute of Southern Illinois University, or from another college or university,

including an accredited junior college, shall be required to take three hours of Air Science unless they are veterans, over twenty-five years of age at the time of entrance, or excused from this requirement by the University Military Policies Committee.

The successful completion of the entire basic course (three academic quarters) and six quarters of Leadership Laboratory, or the equivalent in previous military service, is a prerequisite for graduation. Enrollment in the advanced Air Force ROTC course—which is highly selective—is voluntary.

THE REQUIRED BASIC COURSE

The required basic course for freshmen consists of two hours of classroom instruction during the spring quarter and one hour of Leadership Laboratory each week throughout the fall, winter, and spring quarters.

The required basic course for sophomores consists of two hours of classroom instruction during the fall and winter quarters and one hour of Leadership Laboratory each week throughout the fall, winter, and spring quarters.

THE VOLUNTARY ADVANCED COURSE

Qualified students may apply for the advanced Air Force ROTC course. This consists of six quarters of academic work, plus a six-week summer training unit. The object of the advanced course is to qualify students for appointment as second lieutenants in the United States Air Force Reserve.

Selection of students for enrollment will be made by the Professor of Air Science as provided in section 40–47c, National Defense Act, from qualified applicants as follows:

1. Conditions of Service. All advanced course students will be civilians who will be placed under contract with the government. The contract will contain the following provisions:
 - a. The student agrees
 - (1) Unless sooner discharged for the convenience of the government, to complete the advanced course and to attend the summer training unit at the time specified by proper authority.
 - (2) To accept an appointment as second lieutenant, United States Air Force Reserve, if and when tendered.
 - b. The Department of the Air Force agrees to pay the student commutation of subsistence at a daily rate as announced by that department. This rate varies from year to year. The current rate is \$0.90 per day for a maximum period of 209 days.
2. Personal Qualifications.

- a. A student must have completed the basic course or its equivalent in previous service.
 - (1) Students who have had previous training or service may receive credit toward entrance into the advanced course within the following limits. (Individuals excused from the basic military training requirements for reasons other than those listed below are not eligible to apply for the advanced course.)
 - (a) On the basis of previous honorable service in the Air Force, Army, Navy, Marine Corps, or Coast Guard, a cadet may request a waiver of the basic course, or any portion thereof, as a requirement for entrance into the advanced course.
 - (b) For previous training in a senior division ROTC program at another institution, credit will be allowed equivalent to the number of quarters of the course successfully completed.
 - b. In age, the student must not have reached his twenty-fifth birthday at the time of initial enrollment in the advanced course.
 - c. The physical standards prescribed for appointment to the United States Air Force Reserve in AFM 160-1 will apply. Due allowance will be made for physical defects that can be corrected.
 - d. Mental and educational requirements:
 - (1) A satisfactory score for the Air Force Officer Qualification Test will be required.
 - (2) The fact of enrollment in Southern Illinois University and academic "good standing" will be accepted in satisfaction of educational requirements.
 - (3) At the time of acceptance, the applicant must have at least two academic years remaining to complete all prerequisites for graduation from the University; or, if he is a graduate student, he must have a like period of time remaining to complete all work for an advanced degree. In addition, an applicant's academic standing must be in phase with his AF ROTC training.
3. All members of the advanced course will receive the following emoluments:
 - a. A monetary allowance in lieu of subsistence, at a value to be announced by the Department of the Air Force, to be paid quarterly during the period of enrollment in the advanced course, except during the period of the summer training. The total period will not exceed 21 months. The allowance is in addition to benefits authorized by the GI Bill of Rights.

- b. An officer-type uniform—cadets will be furnished a uniform on a commutation basis. The uniform remains in the cadet’s possession during his two-year enrollment and becomes his property upon successful completion of the advanced AF ROTC program.
- c. The pay of the first enlisted grade (\$78.00 per month) while at advanced summer training unit and travel pay to and from camp at the rate of \$0.05 per mile.

The advanced course will consist of five hours of instruction per week for a minimum total period of seventy-two weeks.

The program of the advanced course will consist of generalized courses designed to develop those attributes of character, personality, and leadership which are essential to an officer in the USAF, supplemented by practical training in leadership, drill, and exercise of command.

Advanced Air Force ROTC summer training units of four weeks’ duration will be conducted annually at Air Force installations to be designated by the Department of the Air Force.

Students enrolled in the advanced course will be required to complete the summer training program prior to receiving their commission. They will normally attend camp immediately after completing the first-year advanced course.

Students enrolled in the AF ROTC courses at Southern Illinois University receive the following credits:

	Hours
1 hour of credit for each academic quarter of the basic course	3
4 hours of credit for each academic quarter of the advanced course	24
Total hours of credit for the basic and advanced courses	27

All credit received for the AF ROTC courses is allowable toward a bachelor’s degree.

Qualified students may apply for deferment from the draft under the Universal Military Training and Service Act, as amended. Such students will agree to pursue the full four years of Air Science if they sign the AF ROTC Selective Service Agreement.

Air Force ROTC textbooks will be furnished on a loan basis to all AF ROTC students. They remain the property of the federal government and must be properly handled.

Uniforms are furnished to the University by the federal government for the use of the basic AF ROTC students. In case a uniform should become so worn or damaged as to be unfit for wear, the student may be held responsible to the extent determined by proper authority.

All cadets are required to wear the uniform on such days and occasions as directed by the Professor of Air Science.

AIR FORCE ROTC AWARDS

Awards are presented to outstanding cadets at the close of the school year. Details concerning such awards are published at appropriate times on the cadet bulletin board. The following awards will be presented to recipients at an Awards Review held in May of each academic year.

1. The Trustees' Cup. Awarded to the best-drilled unit or squadron of the Cadet Corps; it will have the name of the unit or squadron of the Cadet Corps, the name of the unit or squadron commander, and designation of the winning unit or squadron inscribed on it. The cup will be retained at Southern Illinois University for display in the trophy case.

2. The Colonel's Cup. Awarded to that member of the Southern Illinois University Rifle Team scoring the highest total number of points in all competitive matches during the current year. The name of the winning cadet will be inscribed on the cup. The cup will be retained at Southern Illinois University for display in the trophy case.

3. The Commander's Award. Awarded by the detachment to cadet commanders appointed during the school year. Awarded in recognition of leadership ability as demonstrated in command positions in the cadet corps.

4. Leadership Potential Award. Awarded to the senior cadet who best exemplifies potential leadership ability as judged by airmen of AF ROTC Detachment 205.

5. The Trustees' Award, Senior Student. Awarded to the outstanding cadet in the senior year, based on standing in the University and in AF ROTC, and aptitude for general service.

6. The Trustees' Award, Junior Student. Awarded on the same basis as for senior cadet, except to a junior.

7. The Trustees' Award, Sophomore Student. Awarded on the same basis as for senior cadet, except to a sophomore.

8. The Trustees' Award, Freshman Student. Awarded on the same basis as for senior cadet, except to a freshman.

9. The Trustees' Award, Marksmanship. Awarded to the member of the Rifle Team making the highest score in marksmanship during the current year.

10. Air Force Association Medal, Outstanding Advanced Cadet. Awarded to the Advanced Course cadet making the highest military grades of the year.

11. The Reserve Officers' Association Award, Senior Student. Awarded to the outstanding senior cadet, based on the University and AF ROTC grades for the current year and aptitude for general service.

12. Chicago Tribune Award, Junior Student. Awarded at the end of the first and third quarters of each school year to the outstanding junior cadet, based on the highest grade in the particular military course of the current quarter and aptitude for general service.

13. Chicago Tribune Award, Sophomore Student. Awarded on the same basis as junior cadet, except to a sophomore.

14. Convair Cadet Award, Sophomore Student. Awarded to the outstanding sophomore student applying and selected for the Advanced Cadet Corps.

15. American Legion Auxiliary Awards. National security awards, presented to AF ROTC cadets in recognition of continued outstanding service in the interest of the corps.

16. McDonnell Aviation Award. Awarded to the junior student in AF ROTC showing the greatest enthusiasm and interest by the presentation of a topic on air power.

17. Sons of American Revolution. Awarded to basic cadet with highest over-all academic standing and military aptitude.

18. Distinguished Advanced Cadets. To be designated by the PAS.

19. Distinguished Basic Cadet. To be designated by the PAS.

20. The Egyptian Council, Boy Scouts of America, Award. Awarded to the AF ROTC cadet who, while maintaining academic and military proficiency, has contributed the highest degree of leadership and service to the Boy Scout program.

AIR SCIENCE COURSES

110-1. AIR SCIENCE 1, BASIC. Introduction to AF ROTC; introduction to aviation; air vehicles and principles of flight; elements and potentials of air power; military instruments of national security; professional opportunities in the United States Air Force. Basic military training. 2 hours lecture; 1 hour leadership laboratory.

210-1, 220-1. AIR SCIENCE 2, BASIC. Introduction to Air Science 2; evolution of aerial warfare; elements of aerial warfare; the employment of the air forces; operations in space-problems and possibilities. 2 hours lecture; 1 hour leadership laboratory. Prerequisites: 110, or equivalent with consent of Professor of Air Science.

301-4, 302-4, 303-4. AIR SCIENCE 3, ADVANCED. Introduction to advanced AF ROTC; the Air Force commander and his staff; problem-solving techniques; communications process and Air Force correspondence; military justice system; Air Force base functions; and leadership laboratory. 4 hours lecture; 1 hour leadership laboratory. Prerequisites: 210, 220, or equivalent with consent of Professor of Air Science.

351-4, 352-4, 353-4. AIR SCIENCE 4, ADVANCED. Air navigation; weather; military aspects of world political geography; international relations and the Air Force officer. 4 hours lecture; 1 hour leadership laboratory. Prerequisites: 301, 302, 303, or equivalent with consent of Professor of Air Science.



Appendix

UNIVERSITY ENROLLMENT, 1959-60

	MEN	WOMEN	TOTAL
<i>Summer Session, 1959</i>			
Carbondale Campus	2,171	1,786	3,957
Alton Center	259	236	495
East St. Louis Center	172	162	334
<i>Fall, 1959</i>			
Carbondale Campus	5,296	2,649	7,945
Alton Center	1,342	600	1,942
East St. Louis Center	1,018	489	1,507
<i>Winter, 1959-60</i>			
Carbondale Campus	5,133	2,486	7,619
Alton Center	1,214	517	1,731
East St. Louis Center	899	409	1,308
<i>Spring, 1960</i>			
Carbondale Campus	4,956	2,476	7,432
Alton Center	1,110	499	1,609
East St. Louis Center	838	400	1,238
<i>Total Individuals, Summer, 1959—Spring, 1960</i>			
Carbondale Campus	6,900	3,917	10,817
Alton Center	1,769	887	2,656
East St. Louis Center	1,423	757	2,180
Extension	292	513	805
Carbondale Campus, Centers, and Extension	10,337	6,025	16,362
Individuals, Noncollegiate Grade, in University School	495	425	920
Total Individuals (Duplicates Excluded)	10,832	6,450	17,282
Registrants in Division of Technical and Adult Education Courses (Noncredit)			9,346

DEGREES AND CERTIFICATES AWARDED, JUNE 15, 1960

	MEN	WOMEN	TOTAL
<i>Graduate School</i>			
Doctor of Philosophy Degree	2	0	2
<i>Graduate School</i>			
Certificate of Specialist	0	1	1
<i>Graduate School</i>			
Master of Arts Degree	21	9	30
Master of Fine Arts Degree	0	4	4
Master of Music Degree	0	1	1
Master of Science Degree	15	8	23
Master of Science in Education Degree	53	32	85
TOTAL MASTER'S DEGREES	89	54	143
<i>College of Education</i>			
Bachelor of Music Education Degree	3	6	9
Bachelor of Science in Education Degree	114	186	300
	117	192	309
<i>College of Liberal Arts and Sciences</i>			
Bachelor of Arts Degree	130	13	143
<i>School of Agriculture</i>			
Bachelor of Science in Agriculture Degree ..	55	0	55
<i>School of Applied Science</i>			
Bachelor of Science Degree	32	0	32
<i>School of Business</i>			
Bachelor of Science Degree	89	4	93
<i>School of Communications</i>			
Bachelor of Science Degree	21	3	24
<i>School of Fine Arts</i>			
Bachelor of Arts Degree	11	1	12
Bachelor of Music Degree	1	0	1
	12	1	13
<i>School of Home Economics</i>			
Bachelor of Science Degree	0	14	14

<i>Department of Nursing</i>			
Bachelor of Science Degree	0	5	5
<i>Small Business Institute</i>			
Bachelor of Science Degree	3	0	3
<i>Southwestern Illinois Campus</i>			
Bachelor of Arts Degree	10	3	13
Bachelor of Science Degree	30	2	32
Bachelor of Science in Education Degree	13	10	23
	<hr/> 53	<hr/> 15	<hr/> 68
 TOTAL BACHELOR'S DEGREES	 512	 247	 759
<i>Division of Technical and Adult Education</i>			
Associate in Business Degree	17	16	33
Associate in Technology Degree	90	0	90
	<hr/> 107	<hr/> 16	<hr/> 123
 TOTAL ASSOCIATE DEGREES	 107	 16	 123
<i>Division of Technical and Adult Education</i>			
Certificate in Bookkeeping-Clerical	1	6	7
Certificate in Calculating Machines	1	1	2
Certificate in Cosmetology	0	16	16
Certificate in Practical Nursing	0	7	7
Certificate in Stenographic	0	3	3
Certificate in Welding	6	0	6
	<hr/> 8	<hr/> 33	<hr/> 41
 TOTAL CERTIFICATES	 8	 33	 41

DEGREES AND CERTIFICATES AWARDED, AUGUST 12, 1960

	MEN	WOMEN	TOTAL
<i>Graduate School</i>			
Doctor of Philosophy	6	0	6
<i>Graduate School</i>			
Master of Arts Degree	26	5	31
Master of Music Degree	2	0	2
Master of Music Education Degree	0	2	2
Master of Science in Education Degree	77	42	119
	<hr/> 127	<hr/> 54	<hr/> 181
 TOTAL MASTER'S DEGREES	 127	 54	 181

DEGREES AND CERTIFICATES AWARDED,
AUGUST 12, 1960 (*Continued*)

College of Education

Bachelor of Music Education Degree	3	1	4
Bachelor of Science in Education Degree	52	77	129
	<hr/> 55	<hr/> 78	<hr/> 133

College of Liberal Arts and Sciences

Bachelor of Arts Degree	47	6	53
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School of Agriculture

Bachelor of Science in Agriculture Degree ..	11	0	11
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School of Applied Science

Bachelor of Science Degree	11	0	11
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School of Business

Bachelor of Science Degree	26	1	27
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School of Communications

Bachelor of Science Degree	5	1	6
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School of Fine Arts

Bachelor of Music Degree	0	1	1
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School of Home Economics

Bachelor of Science Degree	0	7	7
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Small Business Institute

Bachelor of Science Degree	2	0	2
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Southwestern Illinois Campus

Bachelor of Arts Degree	10	1	11
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Bachelor of Music Degree	0	1	1
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Bachelor of Science Degree	7	0	7
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Bachelor of Science in Education Degree	2	11	13
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<hr/> 19	<hr/> 13	<hr/> 32
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TOTAL BACHELOR'S DEGREES	<hr/> 176	<hr/> 107	<hr/> 283
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Division of Technical and Adult Education

Associate in Business Degree	8	1	9
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Associate in Technology Degree	8	0	8
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TOTAL ASSOCIATE DEGREES	<hr/> 16	<hr/> 1	<hr/> 17
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Division of Technical and Adult Education

Certificate in Calculating Machines	0	1	1
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Certificate in Cosmetology	0	17	17
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TOTAL CERTIFICATES	<hr/> 0	<hr/> 18	<hr/> 18
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RESIDENCE REGULATIONS

Regulations defining the residence of students for purposes of registration in Southern Illinois University are as follows:

1. Evidence showing the residence of every applicant for admission to the University must be submitted to the Registrar at the time of application for admission, and resident or nonresident fees shall be assessed on the basis of evidence appearing in the Registrar's records.

2. In all cases where the records indicate that the student's home is outside the state of Illinois, the nonresident fee shall be assessed. A student who takes exception to the ruling may file a claim for a refund, but this must be submitted to the Registrar within 10 days of the opening date of the quarter for which the charge was made.

3. In the case of a student who is a minor, the residence of the parent, or if the student has no parent, the guardian of his person, shall govern unless there is proven to have been complete emancipation of the minor from his parents or guardian and he has established residence in the state of Illinois.

4. Any student, adult or minor, whose parents have established a bona fide residence in the state of Illinois will be regarded as a resident for registration purposes; except that an adult student who has established a residence on his own account outside of the state must conform to the terms set forth in regulation 6 to be classified as a resident for registration purposes.

5. A wife is classified as a resident for registration purposes if her husband is a bona fide resident of the state of Illinois preceding and at the time of her registration.

6. An adult student whose parents are deceased or whose parents reside outside the state, to be considered a resident of Illinois for purposes of registration, must be a bona fide resident of the state for three months preceding the beginning of any quarter for which he registers at the University and must present evidence that he is self-sustaining and not under parental control.

7. An adult alien, who has taken out first naturalization papers, may qualify as a resident of the state for purposes of registration in the University if he has lived within the state for at least a period of twelve months next preceding the beginning of any quarter for which he registers at the University, subject to the provisions of rules 4 and 6.

8. Several factors will be considered in the determination of each individual case. Among the factors to be considered will be (a) location of

draft board registration, (b) voting address, if any, (c) the degree of self-support of the student, (d) location of summer or vacation employment.

9. All cases of appeal shall first be referred to the Legal Counsel of the University. An appeal from the Legal Counsel shall be in accordance with University statutes.

Note: In the above regulations an adult student is considered to be a male 21 years of age or more or a female 18 years of age or more.

SUMMARY OF MAJORS

GRADUATE SCHOOL

MAJORS OFFERED:

Accounting	Government*
Agricultural Industries	Guidance and Counseling*
Agricultural Services	Health Education*
Animal Industries	Higher Education*
Anthropology*	History
Art	Home Economics***
Biological Sciences	Industrial Education
Botany*	Instructional Materials
Business	Instructional Supervision
Chemistry**	Inter-American Studies
College Student Personnel	Journalism**
Community Development*	Kindergarten-Primary Education
Design	Latin
Economics*	Management
Educational Administration	Marketing
Educational Administration and	Mathematics
Supervision*	Microbiology*
Elementary Education*	Music
English*	Philosophy**
Forestry	Physical Education*
French	Physical Sciences
Geography**	Physics
Geology	Physiology*
German	Plant Industries

* Doctoral major also is offered in this field.

** Doctoral major will be offered beginning with the 1962 fall quarter.

*** Doctoral major is being prepared.

Psychology*	Spanish
Recreation and Outdoor Education	Special Education
Rehabilitation Administration	Speech*
Rehabilitation Counseling	Speech Correction*
Secondary Education*	Theater
Secretarial and Business Education	Transportation
Social Studies	Zoology*
Sociology*	* Doctoral major also is offered.

INSTITUTES

The institutes listed below offer programs with courses drawn from several departments. Admission to each of these programs must be approved by the director of the institute.

Community Development Institute	Rehabilitation Institute
Labor Institute	Small Business Institute
Latin American Institute	Transportation Institute

COLLEGE OF LIBERAL ARTS AND SCIENCES

MAJORS OFFERED:

Anthropology	Home Economics*
Art*	Inter-American Studies
Biology	Language Arts
Botany	Latin
Chemistry	Mathematics
Economics*	Microbiology
English	Music*
French	Philosophy
General Science	Physics
Geography	Physiology
Geology	Psychology
German	Social Studies
Government	Sociology
Greek	Spanish
Health Science	Speech*
History	Zoology

* Not professional majors.

PREPROFESSIONAL PROGRAMS OFFERED:

Dentistry	(3 or 4 years)	Pharmacy	(2 to 4 years)
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Law	(3 or 4 years)	Physical Therapy	(2 or 3 years)
Medicine	(3 or 4 years)	Public Health	(3 or 4 years)
Medical Technology	(2 or 3 years)	Theology	(2 to 4 years)
Occupational Therapy	(2 or 3 years)	Veterinary Science	(3 or 4 years)

COLLEGE OF EDUCATION

MAJORS FOR THOSE PLANNING TO TEACH IN ELEMENTARY SCHOOL:

Art	Spanish
Elementary Education	Special Education
French	(Mentally Retarded)
German	Special Education
Health Education	(Physically Handicapped)
Kindergarten-Primary Education	Speech Correction
Music	

MAJORS FOR THOSE PLANNING TO TEACH IN HIGH SCHOOL:

Art	Home Economics
Biology	Industrial Education
Botany	Journalism
Business Teacher Education	Language Arts
Chemistry	Mathematics
English	Music
French	Physical Education for Men
General Science	Physical Education for Women
German	Physics
Government	Recreation and Outdoor Education
Greek	Social Studies
Health Education	Spanish
Health and Physical Education	Speech
History	Zoology

SCHOOL OF AGRICULTURE

MAJORS OFFERED:

General Agriculture	Forestry
Agricultural Industries	Plant Industries
Animal Industries	Vocational Agriculture

PREPROFESSIONAL PROGRAM OFFERED:

Veterinary Science (where emphasis on agriculture is desired)

SCHOOL OF BUSINESS

MAJORS OFFERED:

Accounting	Marketing
Economics	Secretarial Studies
Management (General, Financial and Personnel)	

SCHOOL OF COMMUNICATIONS

MAJORS OFFERED:

Journalism	Speech
Photography	Speech Correction
Printing Management	Theater
Radio-Television	

SCHOOL OF FINE ARTS

MAJORS OFFERED:

Art	Music
Design	

SCHOOL OF HOME ECONOMICS

MAJORS OFFERED:

Home Economics (with specialization in apparel design, clothing and textiles merchandising, dietetics, foods in business, home advisers, homemaking institution management, interior decoration, or Smith-Hughes home economics education)

SCHOOL OF TECHNOLOGY

MAJORS OFFERED:

Applied Science	Industrial Supervision
Engineering	Manual Arts Therapy
Industrial Arts	Trades and Industries

DEPARTMENT OF NURSING

MAJOR OFFERED:

Nursing

VOCATIONAL-TECHNICAL INSTITUTE

TWO-YEAR PROGRAMS OFFERED:

Accounting
 Co-operative Retailing
 Insurance
 Secretarial
 (Co-operative Medical,
 Executive, Legal)
 Architectural Drafting
 and Design Technology
 Automotive Technology

Building Construction Technology
 Commercial Art
 Dental Laboratory Technology
 Electronics Technology
 Machine Drafting and Design
 Technology
 Machine Tool Technology
 Printing Technology
 Woodworking Technology

ONE-YEAR PROGRAMS OFFERED:

Bookkeeping-Clerical
 Calculating Machines
 Stenographic

Cosmetology
 Practical Nursing
 Welding

EDWARDSVILLE CAMPUSES

BUSINESS DIVISION:

Accounting
 Economics
 Management

Marketing
 Secretarial and Business Education
 Small Business Management

EDUCATION DIVISION:

Administration and Supervision
 Elementary Education
 Guidance
 Health and Physical Education
 Industrial Education

Instructional Materials
 Psychology
 Secondary Education
 Special Education

FINE ARTS DIVISION:

Art
 Music

Speech and Theater

HUMANITIES DIVISION:

English
 Foreign Languages

Journalism (minor only)
 Philosophy (minor only)

SCIENCE AND TECHNOLOGY DIVISION:

Applied Science and Pre-Engineering Botany

Chemistry
Mathematics

Physics and Astronomy
Zoology and Physiology

SOCIAL SCIENCES DIVISION:

Geography
Government

History
Sociology and Anthropology

PREPROFESSIONAL PROGRAMS OFFERED:

Agriculture
Engineering
Dentistry
Home Economics
Law

Medicine
Occupational therapy
Pharmacy
Veterinary

ELECTIVE COURSES

Not all of the 192 hours required for a bachelor's degree consists of required courses. A student will find that he has opportunity to take a certain amount of work on an elective basis. The extent of this opportunity will vary, depending upon a student's academic unit and major.

A list of suggested elective courses appears below. This listing has been furnished by the various departments and divisions and consists of courses that a student can consider taking without the necessity of having had certain prerequisites except, perhaps, the departments' general education courses as listed earlier. This listing of elective courses does not include those courses previously listed under the section headed Requirements for the Bachelor's Degree.

These courses are not necessarily taught on every campus every quarter.

ACCOUNTING

- 250-4. ACCOUNTING FUNDAMENTALS. For students who want a general knowledge of accounting, but do not wish to pursue the subject further.
309-2. INCOME TAXES FOR INDIVIDUALS. Federal income tax law as applied to individuals.

AGRICULTURAL INDUSTRIES

- 114-4. INTRODUCTION TO AGRICULTURAL ECONOMICS. Agricultural and national and local economy; distribution and reasons; size and organization of farm business; policies affecting agriculture.

- 303-4. **SURVEYING.** Elementary surveying; use of tape, compass, leveling transit, with practice in making simple maps.

ANIMAL INDUSTRIES

- 105-4. **ANIMAL HUSBANDRY.** Survey of beef cattle, sheep, and hog industries; laboratory work in judging; field trips, approximately \$2.00 per student.
- 125-4. **ELEMENTARY POULTRY PRODUCTION.** Brooding and rearing of chicks, housing, feeding, disease control, flock selection, management and marketing of poultry.
- 231-4. **DAIRY HUSBANDRY.** Introductory work, including selection, herd improvements, milk secretion, manufacture of dairy products.

ANTHROPOLOGY

- 110-4. **THE WAYS OF MANKIND.** A survey of human origins and of human customs throughout the world, from earliest times to the present day. Development of Man as a biological and a cultural being. Relationships and comparisons of Western and non-Western cultures.
- 300-4. **MAN'S PLACE IN NATURE.** Man as a biological being, his relationships to other living things. Human origins and development. Concept of race and the races of mankind. Human genetics and normal human variation.

ART

- 203-2 to 12. **BEGINNING CERAMICS.** First quarter: emphasis on throwing clay objects on potter's wheel, hand building and press molding of decorative and functional containers; decorative uses of clay and glazes, study of line and form. Second quarter: continuing study of throwing forms on the potter's wheel, decorative techniques, using clay and glazes, firing the kiln; study of raw materials of ceramics, glaze making. Third quarter: continuing study of throwing forms on the potter's wheel, calculation of glaze formulas, study of special types of kiln firing; emphasis on creative approach of subject.
- 231-4. **JEWELRY.** Single-term introductory course. Study of basic techniques used in construction of jewelry with an emphasis on a personal and original design experience.
- 345-3. **ART OF THE NINETEENTH CENTURY.** A survey of significant monuments and their meaning in the western world between the French Revolution and late nineteenth-century impressionism.
- 347-3. **ANCIENT ART.** A survey of art history from early Egyptian times to the fall of Rome.

ASTRONOMY

- 201-4. **INTRODUCTION TO ASTRONOMY.** Four recitations a week, together

with frequent evening observations with and without telescope. Should be followed with 202 for a complete course.

BOTANY

- 350-4. PLANTS IN RELATION TO MAN. A study of the basic relationships of plants to the life of man; the history, geography, crop ecology, production, consumption, and uses of plants and plant products of economic importance.

CHEMISTRY

- 111-5. INORGANIC CHEMISTRY. (1 hour credit after 101.) A beginning course (high school chemistry not a prerequisite) for chemistry majors and minors, pre-medical, pre-dental, pre-engineering, pre-veterinary, and dietetic students. Atomic structure, valence, formulas, equations; general properties of gases, liquids, and solids, oxygen, hydrogen, water, solutions, and the halogens. Lecture and laboratory.

CLOTHING AND TEXTILES

- 127-4. CLOTHING SELECTION AND CONSTRUCTION. Fundamentals of clothing construction. Use of commercial patterns in construction of basic garments of wool, cotton, and rayon. Use of short-cut methods.
- 135-3. TEXTILES. Selection of textiles from consumer standpoint. Characteristics of commonly used fibers and fabrics; textile information as a tool in the selection and care of household textiles and clothing.

ECONOMICS

- 206-4. ECONOMIC PRINCIPLES AND PROBLEMS. Prerequisite: 205.
- 307-4. ECONOMIC AND BUSINESS STATISTICS. 3 hours lecture; 2 hours laboratory. Prerequisite: 205. Recommended: Mathematics 106a.
- 317-4. ECONOMIC HISTORY OF THE UNITED STATES. Prerequisite: 205.

EDUCATIONAL ADMINISTRATION AND SUPERVISION

- 100-4. INTRODUCTION TO EDUCATION. An orientation course to enable students to make intelligent decisions about teaching as a career.

ENGLISH

- 301-3. INTRODUCTION TO SEMANTICS. The nature of language, the emotional and intellectual content; breaking down linguistic naivete, and developing a consciousness of the motives in the use of language.

- 312-3. FOLKLORE. A study of the types of folklore, with wide reading in the field. Students collect and classify examples from local lore.
- 335-4. THE SHORT STORY.
- 356-4. THE NOVEL SINCE 1900. Novelists of various nations. Recommended for students not majoring in English.
- 365-4. SHAKESPEARE. The chief comedies and histories.

FOOD AND NUTRITION

- 105-4. FOODS. Production, marketing, preparation, and service of foods common to family breakfasts and lunches.
- 206-4. FOODS. Units on foods common to family dinners; home preservation of food. Prerequisite: 105, or consent of instructor.
- 336-4. MEAL PLANNING AND SERVING. Principles of food selection and menu making. Selection and use of table appointments. Demonstrations on table setting and service.

FOREIGN LANGUAGES

FOREIGN LANGUAGES

- 140-2. LATIN AND GREEK ELEMENT IN ENGLISH I. Presentation in English contexts of Greek and Latin roots basic in modern technical and scientific vocabulary. No knowledge of the ancient languages required.
- 240-2. LATIN AND GREEK ELEMENT IN ENGLISH II. Similar to 140 but more advanced and introducing medical terms.

GREEK

- 320-3. SURVEY OF GREEK LITERATURE. Discussion of Greek literary works and their influence on later literature. No knowledge of Greek required.
- 330-3. CLASSICAL MYTHOLOGY. Study of the classical myths and their literary value. Open to all students whether they have had the ancient languages or not.

LATIN

- 304-2. PRIVATE LIFE OF THE ROMANS. A course comprising a personal study of the average family; housing, food, and clothing; marriage, education, amusements, slaves, and freedom; means of livelihood; death and burial. Open to all students whether they have had Latin or not.
- 320-3. LATIN LITERATURE IN TRANSLATION. Discussion of Latin literary works and their influence on later literature. No knowledge of Latin required.

FORESTRY

- 361-4. FOREST CONSERVATION. The importance and use of forests, their management and conservation, and public forest policy. For nonagricul-

ture majors. Cannot be used toward major credit in agriculture. Field trips, approximately \$2.00.

GEOGRAPHY

- 310-4. METEOROLOGY. Study of weather, the factors and conditions influencing it, and its importance to man. Emphasis placed upon agriculture, aviation, business, industry, and everyday understanding of weather. Most recent findings in weather science studied. Of value to persons interested in weather bureau service. Prerequisite: 100.
- 313-3. GEOGRAPHY OF ILLINOIS. Acquaints the student with the regional concepts of our state, the distribution of climate, vegetation, soils, land-forms, and mineral resources; interrelates agriculture, manufacturing, industry, and population distribution, interpreted within a regional framework. Prerequisite: 100.
- 315-4. GEOGRAPHY OF EUROPE. An intensive study of regions, with stress on their description, interpretation, and utilization. Emphasis on interdependence of political units. Prerequisite: 100.
- 324-4. RESTORATION AND CONSERVATION OF NATURAL RESOURCES. Survey of major resources of United States with stress on problems of conservation and restoration. Emphasis on water, mineral, forest, grass, soil, wildlife, scenic, and recreational resources. Field trips. Prerequisite: 100, or consent of instructor.

GEOLOGY

- 100-4. PRINCIPLES OF GEOLOGY. A study of earth materials, geologic processes, and earth history. Stress upon the common rocks and minerals, erosional and depositional processes, volcanism, and formation of mountains; development of life forms, and the changing face of the earth; application to understanding the landscape, the search for oil and mineral resources, engineering construction. Laboratory.
- 220-5. PHYSICAL GEOLOGY. A study of the principal minerals and rocks of the earth's crust, emphasizing origin and identification; the physical processes active in producing the surface features of the earth. Laboratory and field trips required.

GOVERNMENT

- 231-5. AMERICAN NATIONAL GOVERNMENT. A survey covering the structure, functions, and principles of national government.
- 305-5. DEVELOPMENT OF THE AMERICAN CONSTITUTION. The evolution of the United States constitutional system. Recommended for pre-law students. Prerequisite: 101 or 231.
- 330-2. ILLINOIS GOVERNMENT. The development and functioning of government in Illinois. Prerequisite: 101 or 231.

HEALTH EDUCATION

- 233-2. FIRST AID. Red Cross first aid course as a basis. Emphasis on standard techniques in emergency case. Standard ARC certificate upon completion.
- 311-4. CHILD DEVELOPMENT. Physical development of the child, beginning with the study of pregnancy, prenatal and postnatal care, and the physical development of the child from birth to puberty.
- 312-4. EMOTIONAL HEALTH. Designed for prospective teachers and parents. Emotional health of the teacher and parent in terms of its influence upon the child in the classroom.
- 325-3. COMMUNITY HEALTH PROBLEMS. Methods of water purification; sewage disposal; diseases transmitted by contaminated food, water, and milk; restaurant sanitation and food handling.
- 355-4. INTRODUCTION TO PUBLIC HEALTH. An introduction to the federal, state, and local official public health agencies, and to voluntary public health agencies; their organization, administration, functions, and relationship to school and community health programs. Programs emphasized by visits to local and state public health agencies.

HISTORY

- 301-3, 302-3. HISTORY OF WARFARE. Survey of the developments in the art of war from the Renaissance to the present.

HOME AND FAMILY

- 227-3. FAMILY LIVING. A study of relationships and adjustments in family living, designed largely to help the individual.
- 300-3. HOME ECONOMICS FOR MEN. Units dealing with food selection, serving, and table practice; economics of the home; grooming and clothing selection; family relations; personality evaluation. Field trip.
- 324-2. EQUIPMENT. Selection, use, and care. Field trips.
- 341-4. CONSUMER PROBLEMS. Study of motives of consumption, family income and expenditures, selection of commodities and services, buying and selling practices, and evaluation of consumer aids.

HOME ECONOMICS EDUCATION

- 111-2. HOME ECONOMICS ORIENTATION. Surveying professional opportunities in home economics; planning for the development of personal and professional proficiencies.

HUMANITIES

- 301-1. MAN'S CULTURAL BACKGROUND. A series of lectures by various

experts pointing up the contributions of literature, art, and philosophy to understanding the modern world.

INDUSTRIAL EDUCATION

- 300-4. **PLASTIC MATERIALS.** Elementary fundamental principles and practices involved in working leather and plastics.

JOURNALISM

- 100-1. **CURRENT EVENTS.** Contemporary events in the modern world and their treatment in the newspaper and periodical press. May not be counted toward the journalism major.
- 101-3, 102-3, **INTRODUCTION TO JOURNALISM I, II.** Development of the newspaper in America; role of the press in modern society.
- 393-3. **PUBLICITY METHODS.** Designed for students who do not plan a career in writing, but desire guidance and practice in writing for newspapers and magazines about their fields of specialization.

MANAGEMENT

- 170-4. **INTRODUCTION TO BUSINESS ADMINISTRATION.** A survey of business, intended to give to the student a general knowledge of the modern business world, a better basis for choosing his specialty, and certain information not covered in the various specialized courses offered.
- 271-4. **BUSINESS WRITING.** Principles and practice in writing typical kinds of business correspondence and reports. Prerequisite: English 103. Ability to pass qualifying test in typewriting.

MARKETING

- 330-5. **PRINCIPLES OF MARKETING.** A general survey course designed to acquaint the student with the entire field of marketing. Consideration given to the underlying economic principles; historical development of distributive systems, channels, agents, institutions, functions, policies and principles.

MICROBIOLOGY

- 100-5. **PRINCIPLES OF MICROBIOLOGY.** Introduction to the fundamental aspects of biology, drawing for examples upon microbial forms. Consideration of morphology; principles of classification; growth and reproduction; heredity, ecology; effects of physical and chemical agents; organisms essential, beneficial, and harmful to man; host-parasite interaction; principles of immunology and epidemiology. Lectures, laboratory, and field trips.

MUSIC

001-1. BAND

002A-1. CHORUS

003-1. ORCHESTRA.

CLASS INSTRUCTION IN THE FOLLOWING AREAS:

010A-1. VIOLIN

020C-1. CLARINET

050B-1. TRUMPET

010B-1. VIOLA

020D-1. BASSOON

050C-1. TROMBONE

010C-1. CELLO

020E-1. SAXAPHONE

050D-1. TUBA

010D-1. STRING BASS

030-1. PERCUSSION

050E-1. BARITONE

020A-1. FLUTE

040-1. PIANO

060-1. VOICE

020B-1. OBOE

050A-1. FRENCH HORN

105-4, 106-4, 107-4. THEORY OF MUSIC. Fundamentals of music in sight singing, ear training, harmony, and keyboard harmony.

307-4. RECREATIONAL MUSIC AND SINGING GAMES. For those interested in the less formal approach to music and for prospective leaders of recreational activities.

330-4, 331-4, 332-4. MUSIC HISTORY AND LITERATURE. Musical thought from the early Greek and Roman periods; development of music in the fifteenth and sixteenth centuries. 331: musical thought in the seventeenth, eighteenth, and early nineteenth centuries (Bach to Wagner). 332: Wagner, the rise of nationalism, late nineteenth- and twentieth-century composers. 331 and 332 may be taken following successful completion of 330.

345-1. MADRIGALS.

346-2 to 12. OPERA WORKSHOP.

NURSING

101-0, 102-2. INTRODUCTION TO NURSING. General introduction to the field. Historical development, philosophy of nursing education and service, the team, functions of nursing, hospitals and other health agencies.

PHILOSOPHY

100-2. SCIENCE AND THE NATURE OF THE WORLD. Introduction to scientific knowledge and its relation to philosophy. Topics drawn from many sciences presented without assuming any prior acquaintance with the sciences: infinity, cause, necessity, nature and the machine, perception, etc.

120-2. PRACTICAL LOGIC I. Introduction to accurate thinking, and the proper use of the resources of language, covering such topics as signs and symbols, definition, metaphor, fallacies, propaganda analysis, implication, and syllogism.

- 121-2. PRACTICAL LOGIC II. Popular but inadequate ways of gathering and summing up information in contrast with the more reliable procedures of common sense and science.
- 140-2. IDEAS OF GOOD AND EVIL. Elementary exploration of human purposes in terms of good, faith and knowledge, human destiny and progress, freedom, democracy.
- 160-2. THE MEANING OF ART. Significance of the arts, developed by considering selected works from architecture, painting, literature, and music.
- 170-3. VALUES IN THE MODERN WORLD. A critical examination of basic moral, religious, aesthetic, and intellectual values of western civilization as these are expressed in selected works of art, music, literature, and philosophy. Attention will be given to alternative value systems and other forces which challenge these values today.
- 302-4. WORLD RELIGIONS. A historical and comparative study of the principal religions of the world. Particular attention is given to such non-Christian faiths as Hinduism, Buddhism, and Islam.
- 386-4. AMERICAN PHILOSOPHY. A survey of American philosophic thought from colonial days to the present, with emphasis on such recent thinkers as Peirce, James, Royce, Dewey, and Santayana.

PHYSICAL EDUCATION—WOMEN

The department recommends courses 100, 120, 204, 205, 208, 216, 222, 228, 239, 254, 255, 315, and 377. Any of these courses may be counted toward the six hours of activity courses required for graduation, but if the six hours have been taken, the above courses may be added as electives.

PHYSICS

See Astronomy.

PHYSIOLOGY

- 209-5. INTRODUCTION TO PHYSIOLOGY. A survey of the functions of the human body. Designed for students in various fields desiring a basic but comprehensive knowledge of human physiology. 3 hour lecture; 4 hour laboratory.
- 300-4. HUMAN ANATOMY. Lectures, demonstrations, and periodic observation of the prosected body. Lectures confined to bones, joints, muscles, and nerves. Designed for majors in physical education and for those wishing an elementary knowledge of human structure.

PLANT INDUSTRIES

- 264-4. GENERAL HORTICULTURE. General principles of plant propagation, vegetable growing, fruit growing, landscape gardening, and floriculture.

- ture. Field trips, approximately \$2.00 per student. 3 lectures and one 3-hour laboratory.
- 304-3. LANDSCAPE GARDENING. Land selection, landscape design and development for home, farm, and public sites with regard to area adaptation. Field trips, approximately \$2.00 per student.
- 344-4. GENERAL FLORICULTURE. Propagation, culture, and uses of flowering plants in the home and garden. Field trips, about \$2.00 per student.

PRINTING AND PHOTOGRAPHY

- 160A-1. THE PHOTOGRAPHIC PROCESSES. Lectures and readings in fundamentals of the various methods of photographic reproduction.
- 217B-3 to 4. GENERAL TYPOGRAPHY. After brief introductory work in screen and block typography, major portion of course is devoted to study of foundry type, type classifications, use of job cases, hand typesetting, layout, use of illustrations, and proof-pulling.
- 260A-3. BEGINNING PHOTOGRAPHY. Picture-taking techniques and dark-room procedures emphasizing the camera in the modern press.
- 341A-3. CINEMATOGRAPHY I. The fundamentals of cinematography, basic to further work in any kind of cinema production. Includes study of lenses, camera, lighting, exposure, trick effects, animation, and titles, but main stress is on mastery of principles of pictorial continuity and editing in laboratory exercises.
- 345A-3. HISTORY OF THE CINEMA. The development and significance of the cinema from Friese-Green to wide screen. Showings of selected films.

PSYCHOLOGY

- 201-4. INTRODUCTORY PSYCHOLOGY. Introduction to the problems and methods of the science of behavior.
- 301-4. CHILD PSYCHOLOGY. A study of the biological and psychological development of the child from birth through puberty, and of relevant research methods and results. Prerequisite: 201.

RADIO-TELEVISION

- 161-4. RADIO-TELEVISION SPEAKING. Oral and visual speaking techniques for various radio and television speaking situations such as studio announcing, musical and dramatic programs, interviews, etc. Extensive microphone practice. Many recordings. Sound films for television practice performance.
- 251-2. SURVEY OF BROADCASTING. Examination of the U.S. system of broadcasting, with emphasis on its history, its structures, economics, network and local station operational structures. The various systems of foreign broadcasting.
- 257-4. FUNDAMENTALS OF BROADCAST WRITING. Oral and visual

forms of writing for radio and television. Short continuity forms and commercial presentations.

- 367-3. RADIO-TELEVISION PRODUCTION SURVEY. Radio and television production techniques for those individuals not planning a full-time broadcasting career. Uses of production equipment. Production of basic types of programs. Two 1-hour lectures per week and two 2-hour scheduled laboratory periods.

RECREATION AND OUTDOOR EDUCATION

- 310-3. SOCIAL RECREATION. Materials and techniques for planning and conducting social activities for groups of varying sizes and ages in the many different social situations.

SCIENCES

- 301-1. MAN'S PHYSICAL ENVIRONMENT. A series of lectures by various experts pointing up the contribution of the physical and biological sciences to understanding the modern world.

SECRETARIAL AND BUSINESS EDUCATION

- 102-3. TYPEWRITING I. An introductory course in touch typewriting, giving credit only to those students who have had no previous school training in typewriting. Students who have had typewriting in high school should take a placement test. Placement tests are given each quarter at announced times. Course 102 is the first course in a five-course typewriting sequence.
- 105-4. SHORTHAND I. An introductory course in Gregg shorthand, giving credit only to those students who have had no previous school training in shorthand. Students who have had shorthand in high school should take a placement test. Placement tests are given each quarter at announced times. Course 105 is the first course in a five-course shorthand sequence.

SOCIAL STUDIES

- 301-1. MAN IN SOCIETY. A series of lectures by various experts in social and governmental problems.

SPECIAL EDUCATION

- 200-2. ORIENTATION TO THE EDUCATION OF EXCEPTIONAL CHILDREN.

SPEECH

- 101-4. PRINCIPLES OF SPEECH. Development of an understanding of basic principles and proficiency in the skills involved in everyday communication.
- 103-4. ORAL INTERPRETATION. A basic course for speech majors, teachers, preachers, and those interested in the analysis of good literature and the oral communication of the literature to an audience.
- 108-3. SPEECH FOR FOREIGN BORN I. Designed to facilitate the learning of American English. May be substituted by foreign-speaking students for Speech 101.
- 201-2. PARLIAMENTARY LAW. How to conduct a meeting. Study and practice of the rules of parliamentary procedure.
- 202-3. PRINCIPLES OF DISCUSSION. Principles and methods of group discussion. Current problems used as material for discussion.

SPEECH CORRECTION

- 104-4. TRAINING THE SPEAKING VOICE. Designed for those students who desire to improve their voice and articulation.

THEATER

- 106-4. INTRODUCTION TO THE THEATER.
- 111-3, 112-3, 113-3. STAGING TECHNIQUES. Lectures and practical experience in all phases of dramatic production in connection with departmental public presentations. One quarter is prerequisite to all courses numbered over 200.
- 208-1 to 3. DRAMATIC ACTIVITIES. Credit to be earned by participation in public performance.

ZOOLOGY

- 102-5. GENERAL INVERTEBRATE ZOOLOGY. Studies of typical representatives of the various kinds of invertebrate animals. Relationship, structure, and natural history emphasized.
- 303-4. GENERAL ORNITHOLOGY. Recognition of birds and study of their songs, nests, migratory habits, and other behavior. Cost of field trips, \$10.00 to \$25.00 per student. Prerequisite: 100 or its equivalent.
- 314-4. HEREDITY AND EUGENICS. Principles of heredity in relation to animals, including man. (Also given by extension.) Prerequisite: 100 or Botany 101.
- 316-4. INSECT PESTS AND THEIR CONTROL. Principal harmful and beneficial insects and their allies; chemical and biological methods of control.
- 350-4. ECONOMIC ZOOLOGY. Animals in relation to public welfare.

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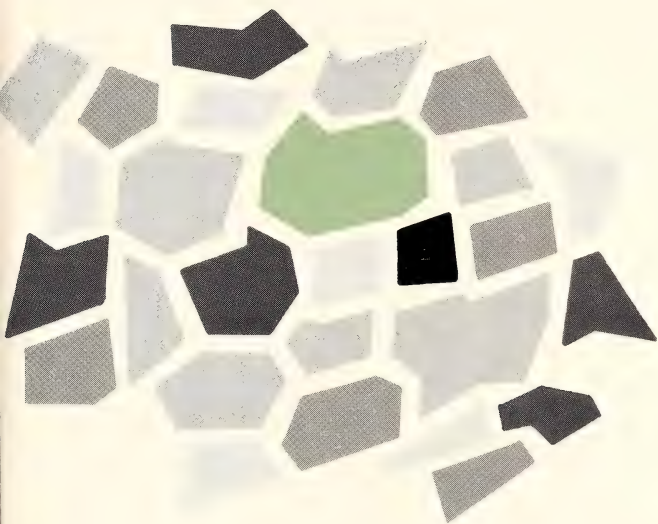
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Southern Illinois University

Bulletin



Graduate School

1961-63

Objectives of Southern Illinois University

TO EVALUATE BEAUTY

IN GOD,
IN NATURE,
AND IN ART;
TEACHING HOW TO LOVE THE BEST
BUT TO KEEP THE HUMAN TOUCH.

TO ADVANCE LEARNING

IN ALL LINES OF TRUTH
WHEREVER THEY MAY LEAD,
SHOWING HOW TO THINK
RATHER THAN WHAT TO THINK,
ASSISTING THE POWERS
OF THE MIND
IN THEIR SELF-DEVELOPMENT;

TO FORWARD IDEAS AND IDEALS

IN OUR DEMOCRACY,
INSPIRING RESPECT FOR OTHERS
AS FOR OURSELVES,
EVER PROMOTING FREEDOM
WITH RESPONSIBILITY;

TO BECOME A CENTER OF ORDER AND LIGHT

THAT KNOWLEDGE MAY LEAD
TO UNDERSTANDING
AND UNDERSTANDING
TO WISDOM.

The Graduate School

Announcements for 1961-1963



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CLARENCE W. STEPHENS, *Vice-President for Operations at Edwardsville*

William T. Going, *Dean of Instruction at Edwardsville*

William J. McKeefery, *Dean of Academic Affairs at Carbondale*

Robert A. McGrath, *Registrar and Director of Admissions at Carbondale*

John H. Schnabel, *Registrar at Edwardsville*

Willis G. Swartz, *Dean of the Graduate School*

John O. Anderson, *Associate Dean and Co-ordinator of Research
and Projects*

David T. Kenney, *Assistant Dean and Chief Graduate Adviser*

This Bulletin . . .

covers in detail questions concerning the Graduate School. It does not cover all questions concerning Southern Illinois University. For complete information about the University the prospective student should refer to the General Information bulletin.

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University Calendar, 1961-1962

SUMMER SESSION

Session Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Final Examinations	Wednesday–Thursday, August 9–10
Commencement	Friday, August 11

FALL QUARTER

New Student Week (Carbondale)	Sunday–Tuesday, September 17–19
New Student Week (Edwardsville)	Saturday–Sunday, September 16–17
Quarter Begins	Wednesday, September 20
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 22–27
Final Examinations	Monday–Saturday, December 11–16

WINTER QUARTER

Quarter Begins	Tuesday, January 2
Final Examinations (Carbondale)	Monday–Saturday, March 12–17
Final Examinations (Edwardsville)	Wednesday–Monday, March 14–19

SPRING QUARTER

Quarter Begins	Monday, March 26
Memorial Day Holiday	Wednesday, May 30
Final Examinations	Wednesday–Tuesday, June 6–12
Commencement (Carbondale)	Wednesday, June 13
Commencement (Edwardsville)	Thursday, June 14

Summer classes begin on Tuesday, June 20. During a quarter, Carbondale day classes begin on the second day of the quarter. Carbondale evening classes (5:45 P.M. or later) begin on the first day. Classes on the Edwardsville campuses begin on September 21, January 4, and March 28.

University Calendar, 1962-1963

SUMMER SESSION

Session Begins	Monday, June 18
Independence Day Holiday	Wednesday, July 4
Final Examinations	Wednesday-Thursday, August 8-9
Commencement	Friday, August 10

FALL QUARTER

New Student Week	Friday-Sunday, September 21-23
Quarter Begins	Monday, September 24
Thanksgiving Recess	Wednesday, 12 noon-Monday, 8 A.M. November 21-26
Final Examinations	Wednesday-Tuesday, December 12-18

WINTER QUARTER

Quarter Begins	Wednesday, January 2
Final Examinations	Wednesday-Tuesday, March 13-19

SPRING QUARTER

Quarter Begins	Wednesday, March 27
Memorial Day Holiday	Thursday, May 30
Final Examinations	Thursday-Wednesday, June 6-12
Commencement	Thursday, June 13

Summer classes will begin on Tuesday, June 19. During the fall, winter, and spring quarters, day classes will begin on the second day of the quarter. Evening classes (5:45 p.m. or later) will begin on the first day of the quarter.



The University

SOUTHERN ILLINOIS UNIVERSITY was established in 1869 as Southern Illinois Normal University. The shortened name became official in 1947 by action of the state legislature.

For some years after its establishment, Southern operated as a two-year normal school. In 1907 it became a four-year, degree-granting institution, though continuing its two-year course until 1936. In 1943 the state legislature changed the institution, which had been in theory exclusively a teacher-training school, into a university, thereby taking official recognition of the great demand in the area for diversified training.

The Graduate School, approved in 1943, at first granted only the Master of Science in Education degree. In 1948 it was authorized to grant also the Master of Arts and Master of Science degrees. In 1952 the Master of Fine Arts degree was added to this list, and in 1955 the Doctor of Philosophy degree was added. The Master of Music and the Master of Music Education degrees were authorized in 1956.

In 1949 the Belleville Residence Center was established and the Alton and East St. Louis residence centers in 1957. In 1958 the Southwestern Illinois Residence Office was created to co-ordinate and direct the University's educational activities in the Madison-St. Clair counties area. In 1959 the Southwestern Illinois Campuses were recognized as a unit co-ordinate with the Carbondale campuses.

LOCATION

The general administrative offices for the University's campuses at Carbondale, Southern Acres, and Little Grassy Lake are located at Carbondale. The central administrative offices directing the University's educational programs at Alton and East St. Louis are located at Edwardsville.

The facilities at Carbondale now include more than twenty-five

hundred acres of land, thirty-six permanent buildings, and numerous temporary buildings. These buildings house classrooms, auditoriums, laboratories, libraries, offices, living quarters, cafeterias, and farm equipment and animals. The Little Grassy Lake and Southern Acres campuses are each about ten miles from Carbondale.

The facilities of the former Shurtleff College have been leased by the University for the operation of the Alton campus. The East St. Louis campus is located at the former East St. Louis High School building.

SESSIONS

The academic year is divided into three quarters. Each quarter is approximately twelve weeks in length.

The fall quarter opens near the middle of September and closes just prior to the Christmas vacation period. The winter quarter begins early in January and ends about the middle of March. The spring quarter begins the latter part of March and ends about the second week in June. Definite dates for each quarter may be found in the University Calendar.

In addition to the three quarters, there is an eight-week summer session which begins immediately following the close of the spring quarter. The summer session consists of a comprehensive program of courses offered by the departments of the University. In addition to the courses which run the full eight weeks, there are workshops and short courses covering shorter periods of time.

REGULATIONS

The University and its various instructional units reserve the right to change the rules regulating admission, instruction, and graduation; to change courses and fees; and to change any other regulation affecting the student body. Such regulations shall go into force whenever the proper authorities so determine, and shall apply both to prospective students and to those who have enrolled in the University.

Each student must assume responsibility for his progress by keeping an up-to-date record of the courses he has taken and by checking periodically with his adviser and the Registrar's Office. Responsibility for errors in program or in interpretation of regulations of the University rests entirely upon the student. Advice is always available on request.

A copy of the regulations governing student life may be obtained from the Office of Student Affairs on the campus which the student attends.

The Graduate School

SINCE THE summer of 1944, graduate courses have been offered leading to the Master of Science in Education degree. In 1948 the University was authorized to offer work leading to the Master of Arts and Master of Science degrees. In 1952 the Master of Fine Arts degree was established. A Sixth-Year Program of graduate work was authorized by the Board of Trustees in 1953. In it work beyond the master's degree can be taken in certain fields toward a Specialist's Certificate. In 1955 the Board of Trustees authorized the Doctor of Philosophy degree. In 1956 the Master of Music and Master of Music Education degrees were authorized.

Through 1960 a total of 2,147 master's degrees had been conferred. Of these, 358 were the Master of Arts, 216 the Master of Science, 1,150 the Master of Science in Education, 20 the Master of Fine Arts, 15 the Master of Music, and 15 the Master of Music Education. Nine Specialist's Certificates and nine doctoral degrees had also been granted.

THE ROLE OF THE GRADUATE SCHOOL

A graduate school that is worthy of the name has a mission to perform that is of the highest order. It is a bearer of the lamp of truth and enlightenment in a world full of hatred, suspicion, and threats of self destruction. It is a defender of freedom of thought and expression, an encourager of creative investigation, a promoter of larger and better equipped scientific laboratories and research libraries, a critical analyst of established institutions and ideas. It inspires in superior students a motivation for advanced study, stimulates both private and public support of organized research, and creates on all levels an atmosphere conducive to a free exchange of ideas and information.

The Graduate School of Southern Illinois University is cognizant of these ideals and objectives and intends to do everything within its power to achieve them.

FELLOWSHIPS AND ASSISTANTSHIPS

Graduate fellowships are available in all graduate departments, upon application to the Graduate School, and are awarded upon the basis of scholarship. Recipients are permitted to carry normal graduate schedules. The stipend for the academic year ranges from \$540 to \$1,350, plus remission of tuition but not other fees. Applications should be made before March 1 preceding the academic year for which the fellowship is desired. Inquiries may be addressed to the dean of the Graduate School.

Graduate assistantships are available in a number of departments and research agencies. These positions pay a stipend which ranges from \$1,350 to \$2,160 for the academic year, with the exact amount depending upon the assignment and experience, plus remission of tuition but not other fees. Service of twenty hours per week, or a corresponding load in teaching or research, is required. Inquiries should be addressed to the chairman of the appropriate department before March 1 preceding the year for which the assignment is sought.

A limited number of graduate assistantships are awarded to persons in student personnel work who are also resident fellows. Recipients are limited to twelve hours of course work per quarter. They receive room, board, remission of tuition but not other fees, and a stipend of approximately \$80 per month.

Research assistantships are available in a number of research agencies and projects. They pay from \$120 to \$180 per month, with the exact amount determined by the assignment, plus remission of tuition but not other fees. Service equivalent to twenty hours per week is required. Inquiries should be addressed to the appropriate departmental chairman or research director before March 1 preceding the year for which the assignment is sought.

HOUSING

The University neither approves nor authorizes housing for the Alton and East St. Louis students. For the convenience of faculty members and students, the Office of Student Affairs maintains a list of rooms, apartments, and houses for rent or for sale. All arrangements for housing and all business transactions in the matter of housing are the sole responsibility of the student and the owner of the housing facility.

Single graduate students will find it necessary to locate private housing facilities in Carbondale or surrounding towns in most cases. At the present time the University does have one hall in the Dowdell Hall area reserved for male graduate students, and plans are being developed to make more University housing available to graduate students, both male and female, in the future. The Housing Office in the Office of Student Affairs processes applications for the Dowdell Hall facilities and also maintains current information on rooms, apartments, houses for rent or sale, and trailer parks.

Married graduate students should address the Housing Office, Office of Student Affairs, for information about university facilities. These facilities consist of temporary apartments located in converted military barracks, 128 one- and two-bedroom and efficiency apartments in the Southern Hills area, and a university trailer court having forty-nine spaces. Because the demand for university facilities for married students exceeds the supply, the student should request information as early as possible.

Most married students must find housing in Carbondale or surrounding towns. As satisfactory arrangements cannot be made by mail, a personal visit to Carbondale is usually required. Prices vary widely, ranging from \$20 per month for trailer spaces to \$100 or more per month for houses.

ADMISSION

Qualified students may apply for admission to the Graduate School any time during the calendar year. Application forms may be obtained from the Admissions Office. Official admission to the Graduate School will not be granted until complete and original transcripts of all previous college work are on file in the Admissions Office. Transcripts must reach the Admissions Office at least one month prior to the time the applicant expects to enter Southern Illinois University for one seeking the master's degree and four months for one whose aim is the doctorate.

A student who wishes to enter the Graduate School immediately after graduation may submit during the final quarter or semester of undergraduate work a transcript showing the courses he is taking, together with a statement from his registrar that graduation will follow successful completion of his current enrollment.

An undergraduate student who is within one quarter's work (sixteen hours) of meeting requirements for the bachelor's degree may take courses for graduate credit by applying for admission to the Graduate School and

obtaining approval for the proposed major from the departmental chairman. Undergraduate students who take such courses for graduate credit must obtain the approval of the dean of the Graduate School at the time of registration.

A student who holds a bachelor's degree and who does not wish to become a candidate for a higher degree or for another bachelor's degree but who wishes to take work in the University should apply for admission as an unclassified graduate student.

ADMISSION TO THE FIRST YEAR OF GRADUATE STUDY

Admission to the first year of graduate study is a two-part process. The first step is admission to the Graduate School; the second is approval for a particular department or major. (See Admission to Full Graduate Standing, below.)

Unconditional admission to the Graduate School for the first year of graduate study is granted to graduates of fully accredited colleges and universities whose undergraduate averages are equivalent to 3.2 or above on a 5-point grading scale. Grades for previous graduate work must be "B" or above.

Graduates of institutions of limited accreditation who have a 3.2 average or above may be granted conditional admission, depending upon the merits of the institution concerned.

ADMISSION TO ADVANCED GRADUATE STUDY

Admission to advanced graduate study is a two-part process. The first step is admission to the Graduate School; the second is approval for a particular department or major. (See Admission to Full Graduate Standing, below.)

Admission to the Sixth-Year Specialist's Certificate Program is based on an applicant's previous academic record, his educational experience, and his proposed goal. A master's degree from a recognized institution is regarded as the basic academic requirement for one wishing to pursue the sixth-year program.

Unconditional admission to the Graduate School on the advanced graduate level will be granted to a student who holds an approved master's degree and whose average in graduate work is equivalent to 4.5 or above on a 5-point grading scale.

Conditional admission to the Graduate School on the advanced graduate level will be granted to a student who holds an approved master's degree and whose average in graduate work is between 4.25 and 4.5.

ADMISSION TO FULL GRADUATE STANDING

After admission to the Graduate School has been completed the graduate dean initiates action for approval of the desired major. The departments are permitted two weeks (three weeks in the case of foreign students) in which to approve majors on the master's level, and ninety days on the doctoral level. When final action on a Ph.D. applicant cannot be taken by a department in ninety days, the Graduate School should be notified of tentative action and a date for final action specified. The dean of the Graduate School informs each student of the action taken by the departmental chairman and of any conditions which must be fulfilled before the major can be finally approved. Entrance examinations in the case of any student may be required prior to action by the proposed major department toward the applicant.

The student attains full graduate standing when he has fulfilled the stated conditions of his major department, has satisfied the English usage requirement of the Graduate School, and has completed any other general examination which may be required of graduate students.

ADMISSION OF FOREIGN STUDENTS

A foreign student is subject to all admission regulations and procedures described above.

Each foreign student must submit, in addition to the regular admission papers, a questionnaire for foreign students showing all previous schooling. The foreign student must also submit an official statement showing sufficient proficiency in English to do successful college work. Such a student who becomes eligible for admission to the University and has been notified that he is eligible must deposit with the University a sum of either \$400 (Carbondale) or \$900 (Edwardsville). This is deposited to the student's account and will assure him of a reserve for necessary expenses after he arrives on the campus. The University does not assume responsibility for a student who arrives with inadequate resources.

ADVISEMENT

Each student admitted to the Graduate School is assigned, by the dean of the Graduate School, one or more advisers representing the student's major and minor fields. The adviser assists the student in making out his program of studies, both quarter-by-quarter and long-range. A

conference with his adviser should be arranged by the student as early as possible in his career so that his over-all program may be planned. Later conferences should be scheduled whenever they become necessary. As soon as the student selects his thesis topic and thesis director, the latter is designated as chairman of the advisory committee. This committee advises the student in the preparation of the thesis, evaluates the thesis when completed, and supervises the final examination, written or oral, when one is required by the major department.

The maximum burden of course work for graduate students during a regular quarter is eighteen hours; twelve is considered to be a normal load. The maximum for graduate assistants, research assistants, and assistant instructors, who are employed half-time, is fourteen hours; for persons who are otherwise employed full-time it is eight. Summer session loads are in proportion. Graduate fellows may in ordinary circumstances carry full loads. These maxima may be exceeded only with the written permission of the dean of the Graduate School.

A number of graduate courses, particularly in the College of Education, are scheduled for evenings and Saturdays, for the benefit of those who are employed during the day. Courses on the 400 level which carry four hours' credit are required to meet for sixteen sessions of two and one-half hours during the quarter, rather than for only one session per week.

A graduate student is expected to plan his work carefully; hence program changes after registration should seldom be necessary. Such changes must be approved by the student's chief adviser and the dean of the Graduate School. They may involve the payment of a program change fee. Program change cards may be obtained from the Graduate School.

The graduate student must assume responsibility for his progress by keeping an up-to-date record of the courses he has taken and by checking periodically with his adviser and the Graduate School Office. Responsibility for errors in program or in interpretation of regulations of the Graduate School and the University rests entirely upon the student. Advice is always available on request.

BULLETINS

The *Southern Illinois University Bulletin* is published by the University in the issues listed on page ii. Each graduate student should have a copy of the General Information issue and the Schedule of Classes for the campus he is attending, in addition to the Graduate School issue. The other issues, which are not intended primarily for graduate students, relate to the undergraduate colleges, schools, divisions, and institutes.

TUITION AND FEES

The tuition and fees charged students are established by the Board of Trustees and are subject to change whenever conditions make changes necessary. At the present time, fees for a quarter during the regular year are as follows:

Tuition Fee	\$42.00*
Book Rental Fee	5.00
Student Union Building Fund Fee	5.00
Student Activity Fee	9.50
Total	<u>\$61.50</u>

* Out-of-state students (non-Illinois residents) pay \$92 tuition rather than \$42.

Students registered for eight or fewer hours pay one-half tuition, one-half book rental fee, full student union building fund fee, and have an option on paying the student activity fee. The student activity fee includes the fees for limited hospitalization, entertainment, athletics, the student newspaper and yearbook, and such other privileges as may be provided.

Graduate assistants and fellows do not pay tuition and have an option on paying the student activity fee. They pay other fees.

In addition to the above fees, a student is subject to certain other charges under the conditions listed below:

1. A matriculation fee of \$5, which is assessed a graduate student the first time he registers if he is a graduate of a school other than Southern.

2. A late registration fee, which is \$2 for the first day and which increases \$1 each day to a maximum of \$5 when a student registers after the regular registration period has ended.

3. A \$1 charge for the completion of an incomplete grade.

4. A \$2 program-change charge whenever a student changes his program from the one for which he originally registered, unless the change is made for the convenience of the University.

5. A graduation fee of \$17; and, for doctoral candidates, a dissertation microfilming fee of from \$22.75 to \$35.00, depending upon the service selected.

6. Other charges which a student may incur are those for departmental field trips, library fines, and excess breakage. Also a student taking a course involving use of materials, as distinct from equipment, will ordinarily pay for such materials.

GRADUATE DEGREES OFFERED

Graduate degrees are available in the following fields:

<i>MASTER OF ARTS</i>	Botany	Instructional Materials
Anthropology	Business	Mathematics
Art	Chemistry	Physical Education
Biological Sciences	Community Development	Physical Sciences
Botany	Design	Physiology
Chemistry	Economics	Recreation and Outdoor Education
Economics	English	Secondary Education
English	Forestry	Secretarial and Business Education
Foreign Languages	Geography	Social Studies
Geography	Geology	Special Education
Government	Home Economics	Speech
History	Industrial Education	Speech Correction
Inter-American Studies	Journalism	Theater
Journalism	Mathematics	
Mathematics	Microbiology	<i>DOCTOR OF PHILOSOPHY</i>
Microbiology	Physical Sciences	Anthropology
Philosophy	Physics	Botany
Physical Sciences	Physiology	Chemistry
Physics	Plant Industries	Economics
Physiology	Psychology	Educational Administration and Supervision
Psychology	Rehabilitation	Elementary Education
Rehabilitation	Sociology	English
Sociology	Speech	Geography
Speech	Speech Correction	Government
Speech Correction	Theater	Guidance
Theater	Transportation	Health Education
Zoology	Zoology	Higher Education
	<i>MASTER OF SCIENCE IN EDUCATION</i>	Home Economics
<i>MASTER OF FINE ARTS</i>	Art	Journalism
Art	Biological Sciences	Microbiology
<i>MASTER OF MUSIC</i>	Chemistry	Philosophy
Music	Educational Administration and Supervision	Physical Education
<i>MASTER OF MUSIC EDUCATION</i>	Elementary Education	Physiology
Music	English	Psychology
	Foreign Languages	Secondary Education
<i>MASTER OF SCIENCE</i>	Geography	Sociology
Agricultural Industries	Guidance	Speech
Animal Industries	Health Education	Speech Pathology
Biological Sciences	Higher Education	Zoology
	Home Economics	
	Industrial Education	

PERSONS RESPONSIBLE FOR APPROVING GRADUATE PROGRAMS
CARBONDALE

Agricultural Industries — Walter J. Wills
Animal Industries — Alex Reed
Anthropology — Walter W. Taylor
Art — Herbert L. Fink
Biological Sciences — John C. Downey
Botany — Walter B. Welch
Business — Henry J. Rehn
Chemistry — James W. Neckers
Community Development — Richard C. Franklin
Design — Harold L. Cohen
Economics — Robert G. Layer
Educational Administration and Supervision — George Bracewell
Elementary Education — J. Murray Lee
English — W. B. Schneider
Foreign Languages — Vera L. Peacock
Forestry — Neil W. Hosley
Geography — Robert A. Harper
Geology — Stanley E. Harris
Government — Orville Alexander
Guidance — Eugene D. Fitzpatrick
Health Education — Donald N. Boydston
Higher Education — George H. Hand
History — Harry Ammon
Home Economics — Eileen E. Quigley
Industrial Education — Ralph O. Gallington
Instructional Materials — Paul R. Wendt
Inter-American Studies — Albert W. Bork

Journalism — Howard R. Long
Mathematics — John M. H. Olmsted
Microbiology — Carl C. Lindegren
Music — Robert E. Mueller
Philosophy — Willis Moore
Physical Education (Men) — Edward J. Shea
Physical Education (Women) — Dorothy Davies
Physical Sciences — (chairmen of the departments involved)
Physics — Charles J. Brasefield
Physiology — Harold M. Kaplan
Plant Industries — Alfred B. Caster
Psychology — Mortimer H. Appley
Recreation and Outdoor Education — William H. Freeberg
Rehabilitation — Guy A. Renzaglia
Secondary Education — Clarence D. Samford
Secretarial and Business Education — Harves C. Rahe
Social Studies — William A. Pitkin
Sociology — Paul J. Campisi
Special Education — Oliver P. Kolstoe
Speech — Ralph A. Micken
Speech Correction — Isaac P. Brackett
Theater — Archibald McLeod
Transportation — Alexander R. MacMillan
Zoology — Harvey I. Fisher

PERSONS RESPONSIBLE FOR GRADUATE ADVISEMENT
EDWARDSVILLE

Chief Graduate Adviser — Leonard B. Wheat
Business — Walter L. Blackledge
Educational Administration and Supervision — Leonard B. Wheat
Elementary Education — David E. Bear, Robert H. Steinkellner
English — Nicholas T. Joost
Government — S. D. Lovell
Guidance — Frank L. Eversull, Lawrence E. Taliana

History — Herbert H. Rosenthal
Mathematics — Eric A. Sturley
Music — Lloyd G. Blakely
Physical and Health Education — Howard C. Nesbitt
Physics — William C. Shaw
Secondary Education — Harry H. Smith, Myllan Smyers
Social Sciences — S. D. Lovell, Herbert H. Rosenthal
Special Education — Mark M. Tucker

MASTER'S DEGREES

GENERAL REQUIREMENTS

Forty-eight hours of acceptable graduate credit are required for the master's degree, except in fine arts, where sixty hours are necessary, and in psychology, rehabilitation counseling, and college student personnel work, where seventy-two hours are required. At least twenty-four hours must be earned in courses numbered 500 or above. No more than sixteen hours earned for work done at another university or in extension may be counted toward the degree. No credit toward the degree may be earned in correspondence; and only credit earned within a six-year period preceding the completion of requirements for the degree will be counted toward it. The students should not expect that work presented for transfer credit will automatically be accepted at face value. An evaluation is made in every case and may result in a reduction of the credit recorded.

Ordinarily a graduate student is expected to select both a major and a minor field. This is particularly true of those who major in the field of educational administration, most of whom find it to their advantage to complete a minor in an academic field. A student may be permitted by his advisory committee and the dean of the Graduate School to concentrate his efforts in one particular area of study. The graduate major, in most fields, consists of a minimum of thirty hours of credit in the area of special concentration; some departments, however, require as many as forty hours for the major, in which case no minor is required. The graduate minor consists of a minimum of fifteen hours. A student may have a double major recorded upon completing the necessary number (sixty hours) of designated courses. One who has a master's degree in a field other than education from another institution, and who wishes to obtain a master's degree in education from Southern Illinois University, may count his major of the first degree as his minor for the second. In this case the student must demonstrate his competence in that major by taking a graduate course in it at Southern Illinois University.

Grades are recorded by the letters A, B, C, D, and E. An average of "B" (4.0) in all courses taken for graduate credit is a prerequisite of the master's degree. Credit for any course for which the grade given is below "C" will not be counted toward the degree. If the graduate student fails to complete a course by the end of a quarter, he may be given a grade of

"deferred." Such a grade should be given for uncompleted work in progress, such as research or thesis work.

Each candidate for the master's degree shall either write a thesis, which may be counted for not more than nine nor less than five hours' credit, carry out a special project, or take specific courses on the graduate level, as may be recommended by his advisory committee and approved by the dean of the Graduate School. Each student who does not write a thesis must submit to the Graduate School, for its permanent records, an approved copy of a research paper as evidence of his knowledge of formal research techniques. The subject of the thesis is to be reported to the Graduate School by the student and is to be approved by the chairman of the advisory committee and the dean of the Graduate School at least two quarters before the date of graduation. The completed thesis shall be submitted for evaluation to the members of the student's advisory committee at least three weeks before the expected date of graduation. Two copies of the approved thesis (the original and first carbon) must be presented to the Graduate School at least two weeks prior to the date of graduation, to be bound and shelved in the libraries of Southern.

Each candidate for a master's degree may be required by his major department to pass a comprehensive examination covering all his graduate work, including the thesis. This examination may be written or oral, or both, as determined by the student's advisory committee. If a written examination is required, at least half of it shall be of a subjective nature. The committee for the oral examination shall be appointed by the chairman of the major department.

Candidates are expected to meet requirements in force during the year of graduation, but due consideration will be given the fact that a student may have been admitted and may have planned his work when other requirements were current. Important changes in requirements are put into effect gradually. Any change in intention, no matter how minor, should be reported to the Graduate School Office, so that records may be accurately kept. It is especially important that the following data should be kept up to date on the student's record in the Graduate School Office: the major and minor, the degree for which the student is a candidate or a potential candidate, the chairman of the advisory committee, and the thesis adviser.

The following deadlines are for the guidance of the candidate for the master's degree, who is advised to plan to finish each task well in advance of the deadline and reminded that failure to meet an established deadline may result in postponement of graduation.

1. The required English test is to be taken during the first quarter in which the student is enrolled in a course given for residence credit.
2. Any general or departmental foreign language requirement is to be met at least three months prior to graduation.
3. The thesis subject is to be approved by the chairman of the advisory committee at least twenty weeks before the date of graduation and is then to be reported by the student to the Graduate School.
4. The student is to supply a copy of his thesis to each member of his committee at least three weeks before graduation.
5. The completed thesis must be approved by the dean of the Graduate School at least ten days prior to graduation. Since the dean may require certain changes, it should be presented for his inspection at an earlier date.
6. The preliminary checkup and application for graduation are to be made with the Graduate School and the Registrar's Office at least three weeks prior to the graduation date. Application forms, which may be secured from either of these offices, should be completed and returned to one of these offices after payment of the graduation fee at the Bursar's Office.

MASTER OF ARTS AND MASTER OF SCIENCE DEGREES

A reading knowledge of a modern foreign language is required in all cases for the Master of Arts degree. The requirement also applies for the Master of Science degree for majors in those departments which have an undergraduate foreign language requirement. The major department in each case will determine whether the requirement is satisfied by one year of successful course work in the chosen language, or whether passage of a proficiency examination, given by the Department of Foreign Languages, will be required. The foreign language requirement is to be fulfilled at least three months prior to graduation.

The requirement that a thesis be submitted is administered for each individual student by the chairman of the major department, the student's chief adviser, and the dean of the Graduate School. In most cases the requirement is met by the presentation of a formal thesis, written in the conventional manner, rather than by the substitution of specific courses or special projects.

MASTER OF FINE ARTS DEGREE

Sixty hours of acceptable graduate credit are required for the Master

of Fine Arts degree, of which a minimum of twenty-four hours must be on the 500 level. Further information may be obtained by writing the Graduate School or the Department of Art.

MASTER OF MUSIC AND MASTER OF MUSIC EDUCATION DEGREES

Forty-eight hours of acceptable graduate credit are required for the Master of Music and Master of Music Education degrees, of which a minimum of twenty-four hours must be on the 500 level.

MASTER OF SCIENCE IN EDUCATION DEGREE

Forty-eight hours of credit are required for the Master of Science in Education degree. A candidate for the degree who is a prospective teacher in the public schools of Illinois must meet the minimum educational requirements for teaching in Illinois, as established by the State Teacher Certification Board. Any exception to this rule must be approved by the dean of the College of Education and the dean of the Graduate School. The student should seek counsel regarding the completion of these requirements before his first enrollment for graduate work.

The thesis requirement will be administered for each individual student by the chairman of the major department, the student's chief adviser, and the dean of the Graduate School. For majors in educational administration and elementary education, Educational Administration and Supervision 500 and Guidance 420 or 422 will be required in lieu of the thesis. There is no foreign language requirement for the Master of Science in Education degree.

SPECIALIST'S CERTIFICATE (Sixth-Year Program)

Forty-five hours of work beyond the master's degree, selected with particular regard for each candidate's training and experience, are required for the Specialist's Certificate, which may now be earned in the fields of educational administration, instructional supervision, elementary education, secondary education, guidance and counseling, and special education. (Eventual authorization of work in other fields is expected.) No transfer credit will be accepted. Up to sixteen hours may be taken in extension, in carefully selected courses. It is desirable for all credit to be taken in full-time residence and highly recommended that not more than sixteen hours

be allowed for extension, evening, and Saturday courses. Students enrolled full-time on campus may earn as much as twelve hours per quarter. Those who are executing the duties of a regular teaching or administrative position may carry no more than one course per quarter. Candidates for the Specialist's Certificate may ordinarily take no more than twenty hours at the 400 level.

A field study is required of each candidate for the Specialist's Certificate. Its nature and the number of hours of credit it will carry are determined in each case by an advisory committee, which is named by the dean of the Graduate School. Credit for the field study will range from six to nine hours.

Applicants should have had three years of successful teaching or administrative experience and must have had two. Candidates are to continue their specialization in the same area in which their majors or minors were earned at the master's level. The advisory committee will design a course of study to fit the needs of each candidate in terms of his educational background and plans for the future.

DOCTOR OF PHILOSOPHY DEGREE

Those interested in working toward a doctor's degree should watch for special announcements from time to time, consult the Graduate School bulletin, or request to have their names placed on the Graduate School's mailing list. Candidates may now apply in those departments listed for the Ph.D. program on an earlier page of this bulletin.

SUMMARY OF REQUIREMENTS

1. Forty-eight hours of credit beyond the master's degree, or the equivalent, and the dissertation are required.
2. The dissertation shall represent at least three quarters of full-time work and at least thirty-six hours of credit.
3. Credit up to twenty-four hours beyond the master's degree may be transferred; more, upon the express recommendation of the advisory committee that work be taken elsewhere.
4. A "B" (4.0) average is required for the degree. No credit with a grade below "C" shall count toward the degree; however, the grade shall count in the student's average.
5. Language proficiencies must be demonstrated by examinations

given by the Department of Foreign Languages; proficiency in statistics may be shown by examination or by successful completion of the course sequence Guidance 420, 520, 521, or Mathematics 410, 411, 412, or 480, 481, 482.

6. Two academic years, or the equivalent, of full-time graduate work in residence are a minimum requirement. Each student must spend at least three successive full-time quarters in residence.

7. The degree may not be conferred less than six months, nor more than five years, after admission to candidacy. Admission to candidacy follows successful completion of at least forty-eight hours of course work, the language requirements, and the preliminary examination.

8. Each student must submit with the approved dissertation a signed microfilm contract and evidence of payment to the University of the microfilm fee.

DETAILED REQUIREMENTS

The minimum requirement for the Doctor of Philosophy degree is forty-eight hours, or its equivalent, beyond the master's degree or its equivalent, plus the dissertation. All work at other institutions offered in partial fulfillment of the requirements for the Doctor of Philosophy degree is submitted to the Graduate Council for approval, upon the recommendation of the department concerned, when the student applies for admission to candidacy for the degree. Any such transfer of credit will be subject to the following rules: (1) that it be made an integral part of the student's total plan; (2) that it be of excellent quality; (3) that it be earned within five years preceding the date of the student's admission to candidacy for the Doctor of Philosophy degree at Southern Illinois University; (4) that credit earned more than five years prior to the request may be evaluated and rejected or accepted for partial value; (5) that in no case will the acceptance of transferred credit reduce the basic residence requirement or reduce such basic tools or requirements as the student's committee may prescribe. No more than twenty-four hours of credit may be transferred toward the Doctor of Philosophy degree, beyond the master's degree or its equivalent, except in cases in which the student's advisory committee recommends that work be taken elsewhere.

A "B" (4.0) average shall be required, as a minimum, for the Doctor of Philosophy degree. No course in which the grade is below "C" shall count toward the degree; however, the grade shall count in the student's average.

Competence in two foreign languages, or one language and statistics, shall be required of each candidate for the Doctor of Philosophy degree. The advisory committee is to decide in each case which alternative is to be followed, and which language or languages will be acceptable. Proficiency examinations may be used to test these competencies. If courses are taken to satisfy the special research tools requirement, they shall not count toward the minimum credit requirement for the degree.

Examinations will be given in French, German, Italian, and Spanish by members of the Department of Foreign Languages assigned in each case by the chairman of that department. Examinations will be given in other languages by special arrangement, in cases in which the language is needed in dissertation work. Students may arrange with the department to take these examinations at any time that the University is in regular session; and they must pass them before they take their preliminary examinations. Students may present two or more books or periodicals, totaling no less than 700 pages, suggested by their major departments and accepted by the Department of Foreign Languages. The examiner will select passages from these books to be translated, with the aid of a dictionary, if necessary. The required proficiency will approximate that of a student who has completed two years of college language with a "B" average.

Doctoral candidates may substitute competence in statistics for one foreign language, with the approval of the major department. This competence may be demonstrated by the acceptable completion of a sequence of graduate courses in statistics in the department of Guidance or Mathematics, or by passing a proficiency examination equivalent to the final examination of the final course in a given sequence and administered by its instructor. The individual departments are to determine whether courses in statistics are to be required of each of their majors as a necessary part of the graduate program. Candidates who substitute competence in statistics for a foreign language may receive credit toward the doctorate for only those statistics courses taken beyond the basic one-year sequence in statistical inference, such as Mathematics 410-412 and 480-482, and Guidance 420, 520, and 521.

A program leading to the Doctor of Philosophy degree requires a minimum of three "years" in resident study at an accredited educational institution; such "years" ordinarily are defined as follows:

First year—The time required to fulfill all requirements for the master's degree or the equivalent.

Second year—The time required to progress from the completion of the first year's work through the completion of the preliminary examina-

tion. This involves obtaining satisfactory grades in an acceptable program of at least forty-eight hours of work, or its equivalent, completing the language requirement, and passing the preliminary examination.

Third year—The time spent between passing the preliminary examination and the completion of all requirements for the doctor's degree, including authorized research, writing a satisfactory dissertation, and passing the final examination. The third "year" may not be shorter than six months.

In order to achieve the Doctor of Philosophy degree one must be in full-time residence at graduate work at Southern Illinois University for a minimum of two academic years.

A student who spends the first two years in residence at Southern Illinois University may petition to spend the last year in absentia. A student who has completed the first year of graduate work elsewhere must be in residence during the two remaining years. In exceptional cases, a student with two years of graduate study elsewhere who satisfies his major department that he has completed work equivalent to the standard departmental requirements will be permitted to take the preliminary examination, provided he has fulfilled the language requirement. If such a student passes the preliminary examination he may complete the requirements for the Doctor of Philosophy degree by devoting the third year to research in residence.

Candidates may be given leaves of absence by the Graduate Council (not to exceed one-fourth of the required residence) to make use of special facilities elsewhere.

A student may partially satisfy the residence requirement by attending summer sessions at Southern Illinois University. Full-time attendance during four eight-week summer sessions is considered the equivalent of one academic year's residence. However, at some time during the second or third year of his doctoral program the student must be in full-time residence at the University through three successive quarters.

The term "residence" as used above means the physical presence of the candidate, from day to day, in the immediate area in which classes are offered, complete University library facilities are available, and academic supervision can be provided at any time at the discretion of the advisory committee. A student shall be considered in full-time residence only during those quarters in which he shall be registered for at least twelve hours of credit, or its equivalent in Dissertation 600. The rate of residence credit given to students carrying less than twelve hours per quarter shall be determined by the Graduate Council.

All work for the Doctor of Philosophy degree must be completed in not more than five calendar years from the close of the quarter or semester in which the student is admitted to candidacy for the degree. If completion of requirements is delayed for reasons beyond the control of the student, he may request an extension of time by petitioning the dean and the Graduate Council, but he should do so only after consultation with his adviser. Under such circumstances, a student may be required to take another preliminary examination and be admitted to candidacy a second time.

A dissertation showing high attainment in independent, original scholarship or creative effort shall be submitted toward the requirements for the Doctor of Philosophy degree. It shall be supervised by a faculty member, who is recommended by the major department and approved by the dean of the Graduate School, and who thus becomes chairman of the candidate's advisory committee. The topic of the dissertation must be approved by the supervisor, by the chairman of the major department or one authorized by him, and by the dean of the Graduate School before the project is undertaken.

The student must register for the course Dissertation 600 for at least three normal full-time quarters or their equivalent. Students may register for Dissertation 600 on a full-time or fractional basis. In any case the grade will be deferred until the thesis is completed and approved.

The dissertation must be approved by the supervisor and at least one other qualified reader before being circulated among advisory committee members. It must be submitted to the committee, in complete and acceptable form (see Graduate School regulations for preparation of manuscripts), one month before the date of graduation.

All dissertations will be microfilmed according to a plan approved by the Graduate School. Two weeks before commencement the candidate must have fulfilled the following requirements:

1. Submission to the Graduate School of two approved, typewritten copies of his dissertation (one the original copy) and a signed microfilm contract.
2. Submission to the Graduate School of an abstract of the dissertation of 600 words or less (or a description of the project, if it is a creative work).
3. Payment of a fee sufficient to cover cost of publication of abstract and microfilming of the dissertation.

If copyright is desired, an additional fee will be required. However, the dissertation will not be available for circulation until it has been microfilmed.

THE GRADUATE INTERNSHIP PROGRAM IN EDUCATION

The Southern Illinois University Teacher-Supervisor-Administrator Internship Program is designed to meet the needs of graduate students who desire to obtain practical experience in a public school while working toward the Master of Science in Education degree, the Specialist's Certificate in the Sixth-Year Program, or the Doctor of Philosophy degree. Graduate students may enroll in either a teaching, a supervising, or an administrative curriculum, and may major on either the secondary or the elementary level. The form with which application for admission is made may be secured from the director of Teacher Training and Graduate Internship and should be completed and returned to him at the earliest possible date. Interns will be admitted in the order in which their applications are approved.

The schedule according to which credit in the Graduate Internship Program for the Master of Science in Education degree and the Specialist's Certificate is earned is as follows:

	HOURS
<i>Summer session on campus.</i>	12
<i>The regular school year.</i> During this period the student will be working under the supervision of a consultant from the office of the director of Teacher Training and Graduate Internship.	
A field study.	4
Two Saturday or evening courses.	8
Teaching, supervisory, or administrative duties assigned by the public school and the University consultant acting together, on a half-time basis. The co-operating public school will pay the intern a salary of approximately one-half that which would be received for full-time work.	0
A one-half-time "practicum" assigned by the consultant.	12
<i>Summer session on campus.</i>	12

Students working toward the Doctor of Philosophy degree will work on a schedule designed to meet their individual needs.

Prerequisites for participation in the Graduate Internship Program are as follows:

1. The application for admission should be filed with the director

of Teacher Training and Graduate Internship no later than the beginning of the spring quarter which precedes the summer session immediately prior to the actual internship.

2. In order for the applicant to be accepted, the application must receive the approval of the dean of the Graduate School, the director of Teacher Training and Graduate Internship, and the administrator of one of the public schools approved for the program.

3. In order for the application to be approved, the applicant must be a graduate of an accredited college or university, with a minimum of thirty-two hours of education including student teaching, and must be certified to teach in the state of Illinois.

4. Following acceptance, the applicant must meet with the director of Teacher Training and Graduate Internship and an adviser so that a suitable curriculum can be designed.

5. Such factors as emotional maturity, adherence to democratic principles, moral character, and scholarship will be taken into consideration in the admission of applicants to the Graduate Internship Program.

RESEARCH

The Graduate Council allocates certain funds available for research to individual faculty members, to departments, and to special research agencies of the University. It also assists in acquiring research funds from foundations and other outside sources.

Instructional Units

GRADUATE MAJORS on the Carbondale campus are usually offered on a departmental basis, although a few interdepartmental majors are available. On the Edwardsville campuses the graduate programs are supervised by the various academic divisions. The descriptive material presented includes the listing of graduate faculty when appropriate.

CARBONDALE UNITS

AGRICULTURAL INDUSTRIES

Henrik Aune, Ph.D. (Minnesota)

Ralph A. Benton, Ph.D. (Illinois)

Herman M. Haag, Ph.D. (Cornell)

William M. Herr, Ph.D. (Cornell)

J. J. Paterson, M.S. (Saskatchewan)

Walter J. Wills, Ph.D. (Illinois), *Chairman*

A Master of Science degree may be earned with a major in agricultural industries. Within the major field two specializations are offered; one is agricultural economics, and the other is agricultural services.

The agricultural economics specialization requires a minimum of 24 hours in courses in agricultural economics and the School of Business. A thesis is required. Graduates from this program are sought by industry and government. Many receive offers of financial assistance for continued work toward the doctoral in agricultural economics. In this program the student may take work in farm credit, farm policy, farm management, and agricultural marketing and prices.

The agricultural services specialization requires a minimum of 24 hours in agriculture. The remaining work may be in any field in the University. A thesis is not required, but an approved research paper must be submitted. This is a terminal degree. This program is designed primarily to meet the needs of individuals wishing to strengthen their training and provide the basis for performing their work more efficiently. The participants include

farm advisers, vocational agricultural teachers, soil conservation personnel, and industrial specialists in agriculturally related businesses.

In both master's specializations the individual's course program is designed to fit his particular goals and objectives.

Students interested in agricultural economics on the doctoral level should consult with the Department of Economics in the School of Business concerning approval to major in economics with a specialization in agricultural economics.

For further information concerning the program and availability of assistantships, write to the Chairman, Department of Agricultural Industries.

ANIMAL INDUSTRIES

Joseph E. Burnside, Jr., Ph.D. (Wisconsin)
 Billy L. Goodman, Ph.D. (Ohio State)
 Scott W. Hinners, Ph.D. (Illinois)

William G. Kammlade, Jr., Ph.D. (Illinois)
 Alex Reed, Ph.D. (Illinois), *Chairman*
 Howard H. Olson, Ph.D. (Minnesota)

The Department of Animal Industries offers major work for the Master of Science degree. A minimum of 24 hours in animal industries courses, including a thesis, is required. Programs may be designed to meet the desires of candidates with emphasis upon animal nutrition, breeding, physiology or production of beef, dairy, poultry, sheep, or swine. The fields of major emphasis may include courses in other related departments such as chemistry, microbiology, physiology, and zoology. Graduates from this program wishing to work for a Doctor of Philosophy degree have many opportunities for financial assistance at other institutions.

Students majoring in another department may choose a minor in animal industries.

For information concerning a specific program and assistantships available, write to the Chairman, Department of Animal Industries.

ANTHROPOLOGY

Pedro Armillas, D.P. (Barcelona)
 Philip J. C. Dark, Ph.D. (Yale)
 Melvin L. Fowler, Ph.D. (Chicago)
 George W. Grace, Ph.D. (Columbia)
 J. Charles Kelley, Ph.D. (Harvard)

Charles H. Lange, Ph.D. (New Mexico)
 Carroll L. Riley, Ph.D. (New Mexico)
 Walter W. Taylor, Ph.D. (Harvard),
Chairman

Graduate work is available in anthropology leading to the Master of Arts and the Doctor of Philosophy degrees.

Acceptance for graduate study in anthropology is at the discretion of

the Department of Anthropology. No specific program of previous work is required, and applicants with academic degrees in other fields than anthropology are accepted. In all cases, however, entering students must take the Preliminary Examination, which is given twice yearly. The purpose of this examination is to assess the students' capabilities and aptitudes in anthropology with a view to giving appropriate direction to their programs of study. Students with degrees in anthropology are expected to take the first of the semi-annual examinations after entrance and students with degrees in other fields the second.

The program of study for each student will be worked out by the student and his adviser; and decisions as to his curriculum, research, and examinations will be made on an individual basis.

For all graduate degrees a student must pass the General Examination. In addition, candidates for the master's degree must pass one language examination and present a thesis, and candidates for the Ph.D. degree must pass two language examinations and the Special Examination and present a dissertation.

The General Examination is a test of the students competence within the entire field of anthropology.

The Special Examination is based upon the field of concentration chosen by the student in consultation with an adviser after he has passed the General Examination.

The language examinations are given by the Department of Foreign Languages and are written. The use of a dictionary is permitted. The examinations are in two parts, one covering technical anthropological works and the other nontechnical materials such as belles-lettres, periodicals, and newspapers. The languages selected must be approved by the Department of Anthropology; those usually recommended are French, German, Russian, and Spanish. A candidate whose native language is other than English must pass the Graduate English Examination at the earliest possible moment after entering the Graduate School. In some cases, he is permitted to select his native language to meet one of his language requirements. At least one language examination must be passed before the General Examination and both before the Special Examination.

Before he submits his doctoral dissertation, a candidate for the Ph.D. degree must undertake field work applicable to some anthropological problem approved by the department. It is not necessary that the dissertation be based on this field work, although this is the usual practice.

The master's thesis is usually a report on a well defined and relatively restricted problem, either of library or of field work. The doctoral dissertation stresses original research of much greater scope.

The Department of Anthropology does not require that a student take

a master's degree on his way to the doctorate. All work for the doctorate, including the dissertation, must be completed within five years after the student has passed the Special Examination. Further information can be obtained from the Chairman, Department of Anthropology.

ART

Bruce Breland, M.F.A. (Cranbrook)	Burnett H. Shryock, M.A. (Columbia)
Herbert L. Fink, M.A. (Yale), Chairman	Milton Sullivan, M.A. (Columbia)
Harvey Harris, M.F.A. (Yale)	Nicholas Vergette, A.T.D. (London)
Warren Sanderson, M.A. (Boston)	Benjamin Watkins, M.A. (Louisiana State)
Alice Schwartz, D.Ed. (Pennsylvania State)	Martin Werner, M.A. (New York)

Graduate programs in art lead to the Master of Fine Arts, Master of Arts, and Master of Science in Education degrees. The candidate is expected to select an area of specialization (i.e., painting, weaving, art education) around which his program will be planned in consultation with the chairman of his advisory committee appointed by the Graduate School.

The Master of Fine Arts and Master of Arts degrees require the attainment of a professional level of performance in the area of specialization as evidenced by the successful presentation of a graduate exhibition scheduled near the end of residence. During residence, students are encouraged to submit their work to various local, regional, and national juried exhibitions.

Those seeking the Master of Science in Education degree are required to complete sixteen hours of work advised by the College of Education.

No general statement can be made concerning undergraduate requirements in art for admission to candidacy for one of the graduate degrees. A strong undergraduate major in art is desirable. The student who lacks such preparation may, on the recommendation of the chairman of his committee, be required to complete undergraduate "deficiencies." In such cases, quality of work rather than appraisal of credits provides the basis for judgment.

The Department of Art reserves the right to select an example of the work of each candidate for the master's degree. Such works become a part of the permanent collection of student works from which exhibitions may be prepared.

Throughout the year, a program of exhibitions is presented in the University Galleries. Exhibitions are chosen with the intention of providing students and interested public with a continuous experience of viewing and judging significant and representative works of art of contemporary or historical character.

ASIAN STUDIES

Courses available in the field of Asian studies are listed by department and include the following: Anthropology 541, 549, 559, Economics 561, Geography 522, Government 457, 458, 459, 460, 480, History 449, 455, 510, 590, Philosophy 490.

Although no graduate major or minor is offered in Asian studies, interested graduate students may consult with members of the Committee on Asian Studies in regard to their programs or research. Further information may be obtained by writing to the Committee on Asian Studies or to its members: Floyd F. Cunningham, professor of geography; William H. Harris, associate professor of philosophy; Hellmut A. Hartwig, professor of foreign languages; H. B. Jacobini, associate professor of government; George W. Grace, assistant professor of anthropology; Ping-chia Kuo, associate professor of history (chairman of the committee); Arthur E. Lean, dean of the College of Education; and Donald A. Wells, assistant professor of economics.

BIOLOGICAL SCIENCES

Students interested in pursuing advanced studies in the biological sciences without majoring in a specific science should consult with Dr. John C. Downey of the Department of Zoology relative to the program to be followed. No uniform program can be listed, as the one to be followed will depend upon the student's interests and objectives. A program in biological sciences is available to students seeking the Master of Arts, Master of Science, and Master of Science in Education degrees. Work in two or three departments is required.

BOTANY

Howard G. Applegate, Ph.D. (Michigan State)	Ladislaw V. Olah, Ph.D. (Stepher Tisza, Hungary)
William C. Ashby, Ph.D. (Chicago)	Aristotle J. Pappelis, Ph.D. (Iowa State)
Margaret Kaeiser, Ph.D. (Illinois)	John W. Voigt, Ph.D. (Nebraska)
Ralph W. Kelting, Ph.D. (Oklahoma)	Walter B. Welch, Ph.D. (Chicago), Chairman
Robert H. Mohlenbrock, Ph.D. (Washington University)	

Graduate work may be taken in the Department of Botany as a major or minor leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees and as a part of the program in biological sciences lead-

ing to the Master of Science or the Master of Science in Education degree.

Candidates for the advanced degrees must have the consent of the department and at least an undergraduate minor in botany including Botany 101 or 102, 202, 203, 320, a year of chemistry, and a reading knowledge of a foreign language. In addition to the general requirements of the Graduate School, a Master of Science or a Master of Arts degree candidate must complete a thesis. A master's degree candidate must enroll in Botany 580 each quarter unless excused by the chairman of the department.

The Doctor of Philosophy degree requires, in addition to the above, a reading knowledge of two foreign languages, and statistics if the candidate's committee so rules. Dr. William C. Ashby will act as adviser until the candidate's committee is appointed. The doctoral candidates will enroll in Botany 580 each quarter unless excused by the chairman of the department and the chairman of the advisory committee.

BUSINESS

ACCOUNTING

Mary Noel Barron, M.B.A. (Michigan)
Clifford R. Burger, M.S. (Indiana State Teachers)
Leo Favrot, M.B.A. (Harvard)
Susie Ogden, A.M. (Illinois)

Roy Richards, M.B.A. (Indiana)
Edward J. Schmidlein, Jr., Ph.D. (New York)
Ralph D. Swick, D.B.A. (Indiana), *Chairman*

MANAGEMENT

Thomas W. Douglas, Ph.D. (Pennsylvania)
Everette N. Hong, Ph.D. (Southern California), *Chairman*

Irving Kovarsky, Ph.D. (Iowa)
Henry J. Rehn, Ph.D. (Chicago)
Frank Stamberg, B.S. (Illinois)

MARKETING

James D. Benson, Ph.D. (Iowa)
Charles H. Hinderman, D.B.A. (Indiana)

Paul M. Hoffman, Ph.D. (New York),
Chairman

The Departments of Accounting, Management, and Marketing combine in offering a major in business on the graduate level leading to the Master of Science degree. Within the limits of courses offered, the individual candidate may concentrate his work in any of these three areas. All candidates will be expected to offer a substantial amount of work in economics.

Each student who intends to concentrate in accounting should have some familiarity with accounting theory, cost accounting, auditing, and federal income taxes. Students entering this program with a liberal arts

background will normally be required to complete, without credit, certain undergraduate courses in accounting, and perhaps courses in other departments as well, in order to prepare for courses at the graduate level. As a minimum, one year of additional study will be needed to complete the graduate program if no previous work has been taken in business.

Courses in these areas may also be taken as a minor by graduate students majoring in other departments of the University.

CHEMISTRY

James N. BeMiller, Ph.D. (Purdue)	Douglas E. Sellers, Ph.D. (Kansas State)
Roger E. Beyler, Ph.D. (Illinois)	Russell F. Trimble, Ph.D. (M.I.T)
Elbert H. Hadley, Ph.D. (Duke)	Robert E. VanAtta, Ph.D. (Pennsylvania State)
Wilbur N. Moulton, Ph.D. (Minnesota)	Kenneth A. Van Lente, Ph.D. (Michigan)
Boris Musulin, Ph.D. (Northwestern)	
James W. Neckers, Ph.D. (Illinois), <i>Chairman</i>	

Graduate courses in chemistry may comprise a major or minor toward the Master of Arts, Master of Science, or Master of Science in Education degree. Graduate courses may also be taken as a part of a physical sciences program leading to any of those degrees.

Effective with the fall of 1962, candidates will be accepted for work toward the Doctor of Philosophy degree. Interested students should contact the department chairman for further details.

MASTER OF ARTS AND MASTER OF SCIENCE

In addition to the general requirements of the Graduate School, minimum requirements for the Master of Arts (or Master of Science) degree in chemistry are as follows:

1. (a) Earned credit, either as an undergraduate or graduate student, in Chemistry 446, 461, 462, 463, 490, 575; (b) Earned credit, or proficiency shown in a diagnostic examination, in Chemistry 411, 433, 444;
2. (a) A three-course subject-matter sequence in chemistry at the 500 level; (b) One additional chemistry course at the 500 level in each of two areas other than 2(a); (Chemistry 451 and 452 may be substituted for one of these courses.)
3. A minimum of 5 hours in research and thesis (Chemistry 599);
4. A final oral examination;
5. A reading knowledge of German (or one year of undergraduate credit); and
6. Attendance at seminar (Chemistry 575).

If an outside minor is chosen, 30 hours of chemistry must be earned.

MASTER OF SCIENCE IN EDUCATION

In addition to the general requirements of the Graduate School, minimum requirements for the Master of Science in Education degree with a major in chemistry are as follows:

1. (a) Earned credit, either as an undergraduate or graduate student, in Chemistry 460 or 461, 462, 463, 490, 575; (b) Earned credit, or proficiency shown in a diagnostic examination, in Chemistry 411, 433, 444;
2. (a) A two-course, subject-matter sequence in chemistry at the 500 level; (b) One additional 500-level subject-matter course in chemistry; (Chemistry 451 and 452 may be substituted.)
3. A minimum of 30 hours in chemistry and 15 hours of graduate credit in education, including at least 3 hours for a scholarly report on some phase of chemistry or chemistry education;
4. A final oral examination;
5. A reading knowledge of German, Russian, or French (or one year of undergraduate credit); and
6. Attendance at seminar (Chemistry 575).

This degree is considered terminal for graduate study in chemistry.

COMMUNITY DEVELOPMENT

This curriculum is interdisciplinary in nature. A candidate for a Master of Science degree in community development will take a portion of his work in related academic fields. Depending on his professional plans, it will be possible for him to minor in a field such as agriculture, anthropology, economics, education, geography, government, history, psychology, sociology. Undergraduate work in more than one of these fields is a desirable background for graduate study in community development. Students with inadequate backgrounds may be required to take certain courses to strengthen their backgrounds.

The period of study and training is planned to encompass one and one-half years. Included must be a minimum of 48 hours of graduate credit, plus a six-month internship in a local community-development program in southern Illinois. Only a limited number of interns can be enrolled in any one year.

The requirements for the Master of Science degree in community development include the following:

1. Twenty-eight to 32 hours in courses specifically designed or approved by the Community Development Institute, to include thesis or research paper.

2. Sixteen to 20 hours of work in one or more allied fields, such as anthropology, education, psychology, sociology.
3. Six months of noncredit graduate internship. (This may be reduced or waived for exceptional students with one or more years of acceptable professional experience in community development work.)
4. Fulfillment of the requirements of the Graduate School.

DESIGN

Harold L. Cohen, B.A. (Institute of Design), *Chairman*
R. Buckminster Fuller

Robert Hunter, B.A. (Southern Illinois)
Davis Pratt
Elsa Kula Pratt
Herbert Roan

Forty-nine hours of graduate credit in design are required for the Master of Science degree. Of these 49, 30 are to be in 490F or 490G, 500F or 500G, and 510F or 510G, 10 in 550, and 9 in 599 (minimum time one year).

In addition to the above requirements, a major in design requires a minimum of twelve undergraduate or graduate hours of electives selected with the adviser, based upon the area of the thesis. These hours are not to be included in the forty-nine hours required in design as outlined above.

Students transferring from other departments and other schools will be placed in the proper curricular stage after a personal interview with the adviser and the showing of examples of their previous undergraduate work.

ECONOMICS

Clark L. Allen, Ph.D. (Duke)
John A. Cochran, Ph.D. (Harvard)
Robert L. Decker, Ph.D. (Colorado)
Milton T. Edleman, Ph.D. (Illinois)
C. Addison Hickman, Ph.D. (Iowa)
Robert G. Layer, Ph.D. (Harvard), *Chairman*

Bernard J. Marks, Ph.D. (Minnesota)
Thomas A. Martinsek, Ph.D. (Ohio State)
Vernon Morrison, Ph.D. (Nebraska)
Donald A. Wells, Ph.D. (Oregon)
G. Carl Wiegand, Ph.D. (Northwestern)

Graduate courses in economics may be taken as a major or minor leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees.

A student may complete the requirements for the master's degree through the successful completion of: (a) 48 hours of graduate work, including the master's thesis; (b) 54 hours of graduate work, including a

research paper for which 5 hours of credit will be given in 501, and a final, departmental comprehensive examination; or (c) 96 hours of graduate work and the preliminary doctoral examination.

Each master's degree candidate is required to complete at least 33 hours in economics.

If a student wishes to combine his study of economics with one of the fields represented in the College of Liberal Arts and Sciences, he should apply for a Master of Arts degree. If he wishes to combine his study of economics with fields represented in the School of Business, the School of Agriculture, or a similar field, he should apply for a Master of Science degree.

The Ph.D. degree candidate may substitute an approved series of mathematics courses (251, 252, 253, and 305) or an approved series of statistics courses for one of the required foreign languages. A final, proficiency examination must be successfully passed if the mathematics sequence is selected.

Information on graduate assistantships may be obtained from the Chairman, Department of Economics.

After a student has been granted admission to the Graduate School, he should contact the chairman of the Department of Economics. The chairman will refer him to the departmental supervisor of graduate students, who will act as his adviser until the student has chosen his thesis topic and a member of the department has consented to direct the thesis. The thesis director will then become the student's adviser and will function together with an advisory committee.

Graduate students with no undergraduate deficiencies, with no language handicaps, and with no outside demands upon their time may find it possible (by taking the heavy graduate load of 16 hours each quarter) to complete the master's degree in three quarters (roughly nine months). Most students who have none of these deficiencies or demands upon their time take three quarters and a summer to complete their master's program. Students with undergraduate deficiencies (determined by the chairman of the Department of Economics), with language difficulties (especially foreign students), or outside work demands upon their time should expect to take longer. Such students should plan to be in residence longer than the usual three quarters or three quarters and a summer.

EDUCATIONAL ADMINISTRATION AND SUPERVISION

George E. Axtelle, Ed.D. (California)
Jacob O. Bach, Ph.D. (Wisconsin)
Harlan D. Beem, Ed.D. (Illinois)

George Bracewell, Ed.D. (Washington
University), *Acting Chairman*
P. Roy Brammell, Ph.D. (Washington)

Roye R. Bryant, Ed.D. (Washington University)

Arthur E. Lean, Ph.D. (Michigan)

Charles D. Neal, Ed.D. (Indiana)

Woodson W. Fishback, Ph.D. (Chicago)

William E. Shelton, Ph.D. (Chicago)

James Herrick Hall, Ed.D. (George Washington)

Graduate programs in this department include the master's and doctor's degrees and the sixth year specialist's certificate.

Graduate courses in educational administration and supervision may be concentrated in educational administration or in instructional supervision, both leading to the Master of Science in Education degree. Graduate courses in the department may also be taken toward a minor in education.

The program of courses for the sixth year specialist's certificate is individually planned in conference with the departmental chairman. A field study is required.

Students interested in working toward the doctorate should familiarize themselves with the basic requirements of the Graduate School before conferring with the departmental chairman regarding a specific program of study.

EDUCATIONAL ADMINISTRATION

A master's degree program in educational administration must include 424, 456 or 556, 460, 500, 533 or 534; Guidance 420 or 422. In addition, elective hours may be taken in 420 or 520; Elementary Education 557; Secondary Education 564; and Guidance 442, so as to total at least thirty-two hours in these areas.

Those students who have had any of the above 400-level courses at the undergraduate level will be expected to substitute other graduate courses from the next succeeding listing in order to complete the forty-eight-hour degree requirement. Since it is not mandatory that a minor be declared, an additional sixteen hours may be selected from courses in the succeeding listing. Only those who are now actively engaged in positions involving school administration or those who contemplate such placement should follow this curriculum: 431, 432, 501-510, 539, 554, 563, 575; Secondary Education 470, 508, 550, 562, 591; Guidance 412, 537, 562.

INSTRUCTIONAL SUPERVISION

The program in instructional supervision consists of a minimum of thirty-two hours of approved graduate credit in the area, plus a sixteen-hour minor or that number of credits in guided electives. Approved graduate-credit courses include 424, 456 or 556, 460, 500, 575; Elementary Education 461; Secondary Education 550; Guidance 420 or 422, 515. The sixteen-hour minor or that number of credit in guided electives should be

selected from 554, 555; Elementary Education 437, 441, 442, 465, 540, 541, 542, 543; Secondary Education 470; Guidance 412, 442, 511, 520, 522, 525, 537, 543, 562; Special Education 414, 513.

Students in instructional supervision may also earn credit under the graduate internship program.

ELEMENTARY EDUCATION

Rebecca E. Baker, Ph.D. (Iowa)
 Luther E. Bradfield, Ed.D. (Indiana)
 Ernest E. Brod, Ed.D. (Colorado State)
 Clyde M. Brown, Ed.D. (Missouri)
 Robert Karlin, Ph.D. (New York)
 J. Murray Lee, Ph.D. (Columbia), *Chairman*

Harold H. Lerch, Ed.D. (Illinois)
 Willis E. Malone, Ph.D. (Ohio State)
 Ted R. Ragsdale, Ph.D. (St. Louis)
 Victor Randolph, Ph.D. (George Peabody)

Graduate programs in the Department of Elementary Education lead to the Master of Science in Education degree, the Doctor of Philosophy degree, and the specialist's certificate.

The graduate major in elementary education for the Master of Science in Education degree consists of a total of 48 hours. Programs have been developed for prospective elementary principals and elementary supervisors. Programs have also been developed for teachers who wish to specialize somewhat in one of the following areas: language arts, reading, social studies, elementary mathematics, elementary science.

Each of the above programs includes certain required courses, guided electives, and related courses in liberal arts. All programs must be planned with and approved by the graduate adviser in elementary education. Specific course requirements for a given program may be obtained upon request from the Department of Elementary Education.

Students in early-childhood education who have not had psychology or Guidance 412, Sociology 427, Health Education 312, or the equivalent of one of these, are required to take four hours in psychology or guidance. Educational Administration and Supervision 554 or 555 or the equivalent is required.

RULES RELATING TO THE MASTER'S DEGREE

1. In lieu of a thesis, all students are required to take Guidance 422 or its equivalent and Educational Administration and Supervision 500.
2. A total of from eight to twelve hours should be selected from departments outside of the College of Education.
3. At least twenty-four hours must be on the 500 level.
4. Those who have undergraduate degrees in other fields regardless of

teaching experience, are required to complete, without graduate credit, at least four hours of elementary methods (314 or equivalent) and eight hours of elementary student teaching. The teaching must be done in residence at a university or college approved by the American Association of Colleges of Teacher Education.

5. Any student taking graduate courses without first being approved by his adviser risks having work not accepted for the degree.

Students interested in the Doctor of Philosophy degree with a major in elementary education should write to the Chairman, Department of Elementary Education, for the requirements.

ENGLISH

Thomas W. Baldwin, Ph.D. (Princeton)	Fred K. Lingle, A.M. (Illinois)
Frances M. Barbour, M.A. (Washington University)	Harry T. Moore, Ph.D. (Boston)
James Benziger, Ph.D. (Princeton)	Robert B. Partlow, Jr., Ph.D. (Harvard)
Charles Blinderman, Ph.D. (Indiana)	Raymond J. Rainbow, Jr., Ph.D. (Chicago)
Winifred Burns, A.M. (Illinois)	W. B. Schneider, Ph.D. (Chicago), <i>Chairman</i>
George G. Camp, Ph.D. (Illinois)	William E. Simeone, Ph.D. (Pennsylvania)
E. C. Coleman, Ph.D. (Illinois)	Walter E. Staton, Ph.D. (Pennsylvania)
Daniel Cook, Ph.D. (California)	E. Earle Stibitz, Ph.D. (Michigan)
Robert D. Faner, Ph.D. (Pennsylvania)	Charles D. Tenney, Ph.D. (Oregon)
John Frank, M.A. (Johns Hopkins)	Howard W. Webb, Jr., Ph.D. (Iowa)
John Grinnell, Ph.D. (Stanford)	Georgia G. Winn, Ph.D. (Pittsburgh)
J. W. Harris, Ph.D. (Illinois)	
Edith Krappe, Ph.D. (Pennsylvania)	

Graduate courses in English may be taken for a major or minor leading to the Master of Arts and Master of Science degrees, for a major leading to the Master of Science in Education degree, and for the Doctor of Philosophy degree. After admission to full graduate standing, the student should confer with the supervisor of graduate study in English.

For the Master of Arts or the Master of Science degree in English, the student must satisfy the following requirements: (1) He must complete at least 48 hours of acceptable graduate work. (2) Before the beginning of his last quarter of residence, he must submit to the supervisor a copy of a research paper which has been accepted in a 500-level course. (3) He must pass a comprehensive examination.

For the Doctor of Philosophy degree, the student must satisfy the following requirements: (1) If he does not hold a master's degree in English from this university, he must pass before the end of his third full quarter of doctoral study a comprehensive examination similar to that re-

quired of candidates for the master's degree. (2) He must complete at least 96 hours of acceptable graduate work (including credit awarded for the dissertation) beyond the master's degree or its equivalent. (3) He must present evidence of competence in two foreign languages approved by the supervisor. (4) He must pass the preliminary examination on English and American language and literature. (5) He must submit an acceptable dissertation and pass a final oral examination.

For important detailed information on these requirements, inquiry should be directed to the supervisor of graduate study in English.

FOREIGN LANGUAGES

A. W. Bork, Doctor en Letras (National University of Mexico)	Helmut Liedloff, Ph.D. (Phillips University, Marburg, Germany)
Boyd G. Carter, Ph.D. (Illinois)	Vera L. Peacock, Ph.D. (Cornell), <i>Chairman</i>
J. Cary Davis, Ph.D. (Chicago)	
Hellmut A. Hartwig, Ph.D. (Illinois)	Madeleine M. Smith, Ph.D. (Yale)

Graduate courses in French, Spanish, German, and certain other languages may be taken as a major or a minor leading to the Master of Arts and Master of Science in Education degrees.

Before receiving either the Master of Arts or Master of Science in Education degree with a foreign language specialization, the candidate, as part of his regular examinations for the degree, must satisfactorily pass a written examination in the literature of his language speciality and an oral examination in that language itself.

For the Master of Science in Education degree, Romance Philology 410 is required for students specializing in French or Spanish. For the Master of Arts degree, Romance Philology 410 and 515 are required for such students. All romance philology courses may be counted toward either French or Spanish specializations. Other course requirements will be determined upon the basis of the student's undergraduate preparation.

FORESTRY

Ronald I. Beazley, Ph.D. (Purdue)	Neil W. Hosley, Ph.D. (Michigan), <i>Chairman</i>
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The Department of Forestry offers major work for the Master of Science degree. Some work in other departments is recommended, the amount varying with the individual student's objectives.

In forestry research or teaching, graduate work is essential. It also leads to a higher grade classification than that of the bachelor's graduate on entrance into federal employment.

GEOGRAPHY

Ronald Beveridge, Ph.D. (Illinois)	Theodore H. Schmudde, Ph.D. (Wisconsin)
Charles C. Colby, Ph.D. (Chicago)	Howard A. Stafford, Ph.D. (Iowa)
Floyd F. Cunningham, Ph.D. (Clark)	Frank H. Thomas, Ph.D. (Northwestern)
Robert A. Harper, Ph.D. (Chicago), <i>Chairman</i>	Joseph Velikonja, Ph.D. (Rome)
Annemarie Krause, Ph.D. (Chicago)	Wilbur Zelinsky, Ph.D. (California)

The Department of Geography offers programs leading to the Master of Arts, Master of Science, and Master of Science in Education degrees.

Effective with the fall of 1962, candidates will be accepted for work toward the Doctor of Philosophy degree. Interested students should contact the department chairman for further details.

An entering graduate student need not have an undergraduate major, but it is expected that he will have had at least one course in each of the following aspects of geography: physical geography, economic geography, map reading, meteorology, climatology, and the geography of Anglo-America. A student without these courses may be asked to make up these undergraduate deficiencies.

Each entering graduate student is required to take an entrance examination. This examination is regarded as a diagnostic test to provide a clear picture of the student's background and to point up strengths and weaknesses that should be considered in planning his graduate program.

A thesis is required of all master's degree candidates who major in geography.

Each student must give evidence of a reading competence in one modern foreign language (French, German, Spanish, or Russian). This can be accomplished either by evidence of the successful completion of a year of college-level language courses or by passing a reading examination.

Course work in the graduate geography program centers around a basic core of courses dealing with geographic literature and thought, field methods, research techniques, and cartographic methods. This core, including Geography 500, 501, 511, and 416, totals 16 quarter hours. The remainder of the graduate student's program is tailored to his interests within the resources of the department and other co-operating departments.

Candidates for the Master of Arts or Master of Science degrees may or may not present a minor. Candidates for the Master of Science in Education degree must work out a program acceptable to the College of Education. Students without a minor may receive credit toward their de-

gree in geography for courses in other departments approved by their adviser.

The normal load is 12 hours during each quarter and 8 hours during the summer session. Although the 48 quarter hours required for graduation can be accomplished in five quarters, the department suggests that students think in terms of two academic years (six quarters) as the time normally required to complete the degree. This longer time allows the student to complete a richer program and to spend a more adequate time in writing the thesis.

Before formally beginning thesis work and not sooner than two quarters after entering the graduate program, the student must take a general comprehensive examination covering the general field of geography. Upon successful completion of this examination the student may begin his thesis work.

An oral defense of the thesis is the final requirement in the program.

Although the relatively large staff allows a wide range of graduate courses, overlapping and interrelated interests of staff members enable particularly strong programs in several fields. Most important of these programs at present are in the fields of cultural geography, economic geography, and the geography of Anglo-America.

GEOLOGY

Dewey H. Amos, Ph.D. (Illinois)
F. Donald Bloss, Ph.D. (Chicago)

Stanley E. Harris, Jr., Ph.D. (Iowa),
Chairman
David Nicol, Ph.D. (Stanford)

Graduate courses in geology may be taken as a major leading to the Master of Science degree or as a minor toward the Master of Arts, Master of Science, and Master of Science in Education degrees.

GOVERNMENT

Orville Alexander, Ph.D. (Iowa), *Chairman*
Clarence Berdahl, Ph.D. (Illinois)
Earl Hanson, Ph.D. (Illinois)
William Hardenbergh, Ph.D. (Illinois)
Irving Howards, Ph.D. (Wisconsin)
Horace B. Jacobini, Ph.D. (Kansas)
Egon Kamarasy, Dr. Pol. Sci. (Budapest)
David T. Kenney, Ph.D. (Illinois)

Frank L. Klingberg, Ph.D. (Chicago)
Manfred Landecker, A.M. (Johns Hopkins)
Robert A. McGrath, Ph.D. (Iowa)
Ward M. Morton, Ph.D. (Texas)
Randall Nelson, Ph.D. (Michigan)
Marian E. Ridgeway, Ph.D. (Illinois)
Willis G. Swartz, Ph.D. (Iowa)
Max Wesley Turner, Ph.D. (Iowa)
William O. Winter, Ph.D. (Michigan)

Graduate courses in government may be taken as a major or minor

leading to the Master of Arts degree, as a part of the social studies major toward the Master of Science in Education degree, and as a major leading to the Doctor of Philosophy degree. Graduate students are required to take 499.

A minor is available on the doctoral level in all areas where a major is available on the master's level. A student is to select his minor only with the approval of his doctoral advisory committee.

GUIDANCE

Eugene D. Fitzpatrick, Ed.D. (Colorado State), <i>Chairman</i> Clinton R. Meek, Ph.D. (George Peabody) Kenneth D. Orton, Ph.D. (Iowa)	Aileen W. Parker, Ed.D. (Indiana) William Neal Phelps, Ed.D. (Colorado State) Wellington A. Thalman, Ph.D. (Cornell)
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Graduate majors in the Department of Guidance are available in the areas of guidance and counseling (elementary schools), guidance and counseling (secondary schools), and guidance and counseling (general). A major in this department leads to the Master of Science in Education degree, to the Specialist's Certificate, or to the Doctor of Philosophy degree.

The major in guidance, leading to a master's degree, consists of at least thirty-two hours in guidance. Each student, under the direction of his adviser, will design a program to meet his individual needs. A course in educational psychology and a course in tests and measurements are prerequisites to entry into this program.

A program that is typical for secondary school guidance workers includes 412, 420, 442, 522, 537, 541, 543, and 545.

A program that is typical for elementary school guidance workers includes 412, 420, 442, 522, 525, 526, 545, and 562.

The candidate may complete the master's program with guided electives from the Department of Guidance and related areas. He may minor in a subject matter area or in another area of education.

The candidate may be certified by his state teacher certification agency in the speciality of guidance by taking additional courses as recommended by his state.

HEALTH EDUCATION

James E. Aaron, Ed.D. (New York) Donald N. Boydston, Ed.D. (Columbia), <i>Acting Chairman</i> A. Frank Bridges, D.H.S. (Indiana) Ralph Casey, Ed.D. (Columbia)	Deward K. Grissom, Ed.D. (Columbia) John R. LeFevre, Ed.D. (Columbia) Charles E. Richardson, Ed.D. (California) Andrew T. Vaughan, Ed.D. (Columbia)
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Graduate courses leading to the Master of Science in Education and the Doctor of Philosophy degrees are offered in the Department of Health Education. On the master's degree level, the candidate may select from three areas of concentration: school health education, community health education, and safety education. In school health and safety education, two programs may be followed: (1) a minimum of 24 hours in health education, a minimum of 16 hours in a minor field, and 8 hours, with departmental approval, from other graduate courses in the University, (2) a maximum of 40 hours in health education and 8 hours from offerings in the field of education having departmental approval.

The program in community health education extends over four quarters of study with 60 quarter hours required for the degree. Required courses for the degree in community health are 488, 489, 500, 511, 533, 534, 535, 590, Food and Nutrition 404, Radio-Television 367, and Journalism 393.

A program leading to the Doctor of Philosophy degree is offered in health education, and qualified candidates wishing to pursue this program will receive individual guidance from the department.

HIGHER EDUCATION

I. Clark Davis, Ed.D. (Indiana)	Clarence D. Samford, Ph.D. (New York)
John E. Grinnell, Ph.D. (Stanford)	Max Sappenfield, Ph.D. (Illinois)
George H. Hand, Ph.D. (Princeton),	Harold W. See, Ed.D. (Indiana)
<i>Chairman</i>	Charles D. Tenney, Ph.D. (Oregon)
Alonzo F. Myers, Ph.D. (Columbia)	Dennis Trueblood, Ed.D. (Indiana)

The Department of Higher Education was established on July 1, 1959. It offers programs leading to the Master of Science in Education and the Doctor of Philosophy degrees.

The general goal of the department is a program: (1) to interest and instruct college graduates in the college teaching profession and its problems, (2) to interest and instruct college graduates in the field of college administration, (3) to interest and instruct college graduates in the field of college student personnel work, (4) to analyze and call attention to historical and current problems, issues, and opportunities in higher education.

The program in college student personnel work is a two-year course of study with a balance of theory and practice. Graduates receive a Master of Science in Education degree (72 quarter hours) plus a full academic year of experience in student personnel work with both women and men. The student plans his experience, in co-operation with his adviser, within the following framework: (1) courses in the major field including theory and supervised experiences, (2) courses in the foundation fields of higher

education including theory, philosophy, problems, curriculum, finance, and administration and of human behavior including personality theory, psychopathology, learning theory, group dynamics, counseling theory, and psychological measurement, and (3) courses in elective areas of professional education or the traditional academic disciplines to strengthen the student's college teaching or other professional needs.

Admission to the program is by Selection Committee. Qualifications for admission include a bachelor's degree, a "B" average or better in undergraduate study, and personal qualities to live with students as an adviser and counselor.

Room, board, and tuition are offered for service as a residence hall fellow. Fellowship funds of \$80 per month are available for students accepted with a "B" average or above. Especially for married students, a limited number of graduate assistantships at \$180 per month and tuition are available through the Office of Student Affairs.

For further information, address inquiries to Co-ordinator, College Student Personnel Graduate Studies Program, Department of Higher Education, Southern Illinois University, Carbondale, Illinois.

HISTORY

Harry Ammon, Ph.D. (Virginia)

Harold E. Briggs, Ph.D. (Iowa)

George L. Cherry, Ph.D. (Northwestern)

C. Harvey Gardiner, Ph.D. (Michigan)

Ping-Chia Kuo, Ph.D. (Harvard)

William A. Pitkin, Ph.D. (Texas)

Gunther E. Rothenberg, Ph.D. (Illinois)

History may be chosen as a major for the Master of Arts degree and as part of a social studies major for the Master of Science in Education degree. In either case a minimum of 32 quarter hours (of the 48 hours required for the degree) of appropriate history credit is required. At least 16 of the required 32 hours must be taken in courses on the 500 level, the remainder on the 400 level. Candidates for the Master of Arts degree are required to present a thesis (5 to 9 quarter hours) and must pass a reading examination given by the Department of Foreign Languages in a modern foreign language. They must also pass an oral examination in history after the thesis has been accepted. The thesis is optional for Master of Science in Education degree candidates, and there is no language requirement for that degree. All candidates for either degree should consult the chairman or his representative before enrolling for courses. When a student has decided with which department member he wishes to write his thesis, that professor will become his adviser. The department believes that programs should be planned in the light of the student's previous studies, and it discourages undue specialization.

HOME ECONOMICS

CLOTHING AND TEXTILES

Helen M. Evans, Ph.D. (Michigan State) Ritta Whitesel, M.A. (Columbia)
 Adeline M. Hoffman, Ph.D. (Pennsylvania
 State), *Chairman*

FOOD AND NUTRITION

Jennie M. Harper, Ph.D. (Cornell) Frank Kinishio, Ph.D. (Cornell)

HOME AND FAMILY

Abraham Blum, Ph.D. (Cornell) Eileen E. Quigley, Ed.D. (Missouri)
 Betty Jane Johnston, Ph.D. (Purdue), Lois R. Schulz, Ed.D. (California)
Chairman

HOME ECONOMICS EDUCATION

Anne Cameron, Ph.D. (Ohio State) Eileen E. Quigley, Ed.D. (Missouri)
 Anna Carol Fults, Ph.D. (Ohio State),
Chairman

The Master of Science and Master of Science in Education degrees with a major in home economics are available with specialization in clothing and textiles, food and nutrition, home economics education, and home and family. Work toward the Ph.D. degree may be taken in home economics in the areas of family economics and home management, home economics education, and clothing.

INDUSTRIAL EDUCATION

Charles A. Bunten, Ed.D. (Missouri) James Jenkins, Jr., D.Ed. (Pennsylvania
 John H. Erickson, D.Ed. (Pennsylvania State)
 State) Marvin E. Johnson, Ed.D. (Missouri)
 Ralph O. Gallington, Ed.D. (George John M. Pollock, Ed.D. (George Peabody)
 Washington), *Chairman* Wayne S. Ramp, Ed.D. (Bradley)
 M. Keith Humble, Ph.D. (Missouri)

Graduate students may elect industrial education as a major or minor for the Master of Science or Master of Science in Education degree. Advanced study beyond the master's degree is also provided in connection with the minor of a doctoral degree, the major of which is in another field.

INSTRUCTIONAL MATERIALS

Gordon K. Butts, Ed.D. (Indiana) Roy W. Evans, A.M. (George Peabody)

Kathleen G. Fletcher, M.S. (Illinois)
Ralph E. McCoy, Ph.D. (Illinois)
Grosvenor C. Rust, A.M. (Chicago)

Paul R. Wendt, Ph.D. (Minnesota),
Chairman

Graduate courses in instructional materials may be taken for a major toward the Master of Science in Education degree. They may be taken also as a minor in library service or as a minor in audio-visual education toward the Master of Science in Education degree.

The graduate major in instructional materials, toward a Master of Science in Education degree, involves professional training in both audio-visual education and school library service. It meets the state and national certification standards for full-time school librarians and the standards recommended by the Department of Audio-Visual Instruction of the National Education Association. In Illinois, every school librarian is also required to have a teaching certificate.

Fifty-two quarter hours are required for the major. No minor is required. At least 26 hours must be earned in courses numbered 500 or above.

The following courses are required for the major in instructional materials: 403, 405, 406, 417, 420, 445, 510, 514, 546, 554, 599. To complete the major, 12 hours must be elected from the following courses: 440, 457, 458, 530, 547, 548, 549, 560, 576.

A minor in instructional materials toward the Ph.D. degree can be obtained through a proper choice of electives.

The graduate minor in school library service is offered for students taking a major in another department. This minor, consisting of a minimum of 15 hours, is intended primarily for teachers who wish to gain an appreciation of literature for children and adolescents. It is not intended for the preparation of professional school librarians.

The following courses are required for the graduate minor in school library service: 405, 406, and 514. To complete the minor, at least three hours must be elected from the following courses: 420, 510, 530, and 576.

The graduate minor in audio-visual education is also offered for students taking a major in another department. This minor is intended primarily to prepare audio-visual directors and co-ordinators. It meets the certification recommendations of the state and national audio-visual organizations.

The following courses are required for the minor in audio-visual education: 417, 546, 548. To complete the minor, at least three hours must be elected from the following courses: 440, 445, 457, 458, 547, 549, 560, 576. This area may serve as a minor toward the Ph.D. degree.

For further information on planning major or minor programs, work experiences, job opportunities, or other related matters, consult the Chairman, Department of Instructional Materials.

INTER-AMERICAN STUDIES

The purpose of this program is to give the student a broad understanding of inter-American affairs. With this objective in mind, a graduate supervisory committee counsels on the selection of courses for the individual student.

Course work in the inter-American studies program is offered by the departments of Anthropology, Economics, Foreign Languages, Geography, Government, and History.

Prerequisites for the Master of Arts degree include a command of the Spanish language adequate to meet the student's needs for research and communication within the area of his program. The director of the Latin American Institute and the supervisory committee will determine the student's linguistic competence on registration and, where necessary, specify what the student must do to improve his proficiency in Spanish. Whenever the student's program involves the need for Portuguese or French, he will also need to demonstrate or attain satisfactory proficiency in that language. In addition, a satisfactory basic preparation in inter-American studies is required.

Requirements for the Master of Arts degree include

1. The completion of an area of concentration of at least thirty hours of courses acceptable for graduate credit, in one of the above listed departments.
2. The completion of a minimum of eighteen hours of related studies approved by the student's supervisory committee which will meet the requirement for a minor in the Latin American Institute. A maximum of three areas is permitted in the minor field of concentration.
3. The completion of a satisfactory thesis on a Latin American topic in the area of concentration for which five to nine hours of credit are given.

A minor in inter-American studies for those students with a major in a department outside of the institute will consist of a minimum of eighteen hours to be taken in two of the participating departments. Specific course programs will be worked out by the director of the institute, in consultation with the chairmen of the departments involved.

In every case the student's final program must be approved by the graduate supervisory committee, acting under policies established by the Latin American Institute and the Graduate School. Courses and staff employed in the program will be those already approved by the Graduate Council.

JOURNALISM

Charles C. Clayton, B.J. (Missouri)
 James L. C. Ford, Ph.D. (Minnesota)
 Donald G. Hileman, Ph.D. (Illinois)

Howard R. Long, Ph.D. (Missouri), *Chairman*
 Marlan D. Nelson, A.M. (Stanford)
 W. Manion Rice, A.M. (Missouri)

Courses in journalism leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees are offered by the Department of Journalism. Candidates for a master's degree must complete 48 hours of graduate work (half in professional journalism courses, the remainder in courses in the liberal arts) including a thesis demonstrating a capacity for investigation and independent thought.

Doctoral students take 36 hours of advanced journalism courses, 24 hours in each of three other approved related fields (above a bachelor's degree), write a dissertation, and meet all requirements of the Graduate School.

MATHEMATICS

F. Gonzalez Asenjo, Ph.D. (La Plata)
 Amos Black, Ph.D. (Cornell)
 James R. Boen, Ph.D. (Illinois)
 Leslie D. Gates, Jr., Ph.D. (Iowa State)
 Dilla Hall, Ph.D. (St. Louis)
 Morton R. Kenner, Ph.D. (Columbia)
 Carl E. Langenhop, Ph.D. (Iowa State)
 Paul E. Long, Ph.D. (Oklahoma State)
 Abraham M. Mark, Ph.D. (Cornell)

Wilbur C. McDaniel, Ph.D. (Wisconsin)
 Marian Moore, Ph.D. (Purdue)
 John M. H. Olmsted, Ph.D. (Princeton),
Chairman
 Louis D. Rodabaugh, Ph.D. (Ohio State)
 Michael Skalsky, D.N.Sc. (Gottingen)
 Thomas H. Starks, Ph.D. (Virginia Polytechnic Institute)
 Joseph C. Wilson, Ph.D. (Louisiana State)

Graduate work in mathematics may be taken as a major or minor leading to the Master of Arts, Master of Science, or Master of Science in Education degree. For a major, the Master of Arts degree requires a thesis, and the Master of Science degree requires a special research paper. For both of these degrees there must be a "B" average in the major courses as well as a "B" average in all graduate work, and the candidate must demonstrate a reading knowledge of French, German, or Russian by passing a special examination given by the Department of Foreign Languages. Both written and oral comprehensive examinations are required.

SPECIAL GRADUATE MINOR

A special group of graduate courses is offered for secondary school

teachers who did not take undergraduate majors in mathematics or who may have taken such majors some time ago. These courses may be taken for a minor by persons working for a Master of Science in Education degree with a major in secondary education, guidance, or educational administration and supervision. The purpose of these courses is to provide a modern viewpoint of the basic principles of algebra, geometry, calculus, and some of the fields of application. The courses which are offered for this special program include 440, 442, 541, 542, 544. It is planned to offer at least six hours of work on this program each summer so that a graduate minor may be completed in three summers.

MICROBIOLOGY

Carl C. Lindegren, Ph.D. (California Institute of Technology), *Chairman*
Dan O. McClary, Ph.D. (Washington University)

Maurice Ogur, Ph.D. (Columbia)
Isaac L. Shechmeister, Ph.D. (California)

Graduate courses in microbiology may be taken as a major or minor leading to the Master of Arts and Master of Science degrees, or as a part of a biological sciences program leading to the Master of Arts, Master of Science, and Master of Science in Education degrees.

The Doctor of Philosophy degree in microbiology will be awarded to a candidate in recognition of achievement in independent research and in advanced studies. His original contribution to knowledge, evidenced in the dissertation, together with a superior comprehensive scholarship record and satisfactory completion of prescribed examinations are the criteria for the degree. Emphasis will be placed on his critical evaluation of and familiarity with the existent developments in microbiology and related areas of study.

The Department of Microbiology and the Biological Research Laboratory offer facilities for research in microbial genetics, cytology, radiation biology, physiology and biochemistry of microorganisms, medical microbiology, immunology, and virology. In addition to the library facilities, reprint collections covering many topics in microbiology are available for student use.

To be eligible for the doctoral degree, the student must satisfy the following requirements. (1) He must complete at least 144 hours of graduate work and research. Credit for research may not exceed sixty out of the 144 hours. (2) He must demonstrate his proficiency in statistics and his ability to read with reasonable facility scientific literature in two modern languages. (3) He must pass the qualifying examination and a final oral examination. (4) He must submit a dissertation based on his research.

A minor may be elected as part of a doctoral program in microbiology, subject to approval of the department, from courses in any program which constitute a major for the master's degree. A minor in microbiology for the doctorate in another biological science consists of general microbiology and twenty hours selected from courses offered and approved by the department.

MUSIC

Steven Barwick, Ph.D. (Harvard)
 Will Gay Bottje, A.Mus.D. (Rochester)
 Fred H. Denker, Ph.D. (Rochester)
 Carmine Ficocelli, M.Mus. (Indiana)
 Robert Forman, Ed.D. (Florida)
 Carol MacClintock, Ph.D. (Indiana)
 Wesley Morgan, Ph.D. (Southern California)

Robert E. Mueller, Ph.D. (Indiana),
Chairman
 Phillip H. Olsson, M.M. (Chicago Conservatory)
 Robert S. Resnick, M.M. (Wichita)
 Charles C. Taylor, Ed.D. (Columbia)
 William K. Taylor, M.Mus. (Indiana)
 Robert E. Thomas, Ed.D. (Illinois)

Work may be taken toward the Master of Music and the Master of Music Education degrees.

The Master of Music degree is offered with specialization in music history-literature, theory-composition, and applied music.

Requirements are eighteen hours in the field of specialization; five to nine hours in 599 (thesis); 501; 502 (nine hours); plus sufficient elective hours in music to total forty-eight hours.

The Master of Music Education degree follows a similar pattern of course distribution: eighteen hours in the specialization area with a minimum of twelve hours in music education courses and a maximum of eight hours to be elected in professional education courses in consultation with the adviser; five to nine hours in 599 (thesis); 501; 502 (nine hours); plus sufficient elective hours in music to total forty-eight hours.

PHILOSOPHY

George E. Axtelle, Dr. Ed. (California)
 Luis A. Baralt, Ph.D. (Havana)
 James A. Diefenbeck, Ph.D. (Harvard)
 William Henry Harris, Ph.D. (Boston)
 George T. McClure, Ph.D. (Ohio State)

Willis Moore, Ph.D. (California), *Chairman*
 George Kimball Plochmann, Ph.D. (Chicago)
 Charles D. Tenney, Ph.D. (Oregon)
 Henry N. Wieman, Ph.D. (Harvard)

The Department of Philosophy offers graduate work leading to the Master of Arts degree. Graduate courses in philosophy may be used also as a minor in programs leading either to the Master of Arts or Master of

Science in Education degree. Many students, particularly those who do not plan to continue graduate work in philosophy beyond the master's level, are encouraged to elect a graduate minor or to combine philosophy with another subject in a sixty-hour double major.

Effective with the fall of 1962, candidates will be accepted for work toward the Doctor of Philosophy degree. Interested students should contact the departmental chairman for further details.

The department expects an applicant for admission to its graduate program to have had at least 24 hours in philosophy or closely related theoretical subjects. The chairman may waive a portion of this credit requirement in favor of maturity and of quality and breadth of academic experience. The applicant will be required to make up serious background deficiencies by taking appropriate undergraduate philosophy courses without credit.

The Department of Philosophy requires the candidate for a master's degree to present a thesis, for which 9 hours of credit are allowed. He must pass two examinations: a written examination covering all of the course work he is offering for the degree and an oral examination devoted chiefly to the thesis.

The department has available each year a number of assistantships for qualified graduate students. Applications for these assistantships should be sent to the department before April 1 of the scholastic year preceding that for which the application is made.

PHYSICAL EDUCATION

Jay A. Bender, Ph.D. (Illinois)
L. Ralph Casey, Ed.D. (Columbia)
Dorothy Davies, Ed.D. (Cincinnati),
Chairman, Physical Education for
Women

Ronald G. Knowlton, Ph.D. (Illinois)
Edward J. Shea, Ph.D. (New York), *Chair-*
man, Physical Education for Men
James J. Wilkinson, P.E.D. (Indiana)
Helen Zimmerman, Ph.D. (Wisconsin)

Graduate courses in physical education may be taken as a major or minor toward the Master of Science in Education degree or the Doctor of Philosophy degree.

MASTER'S DEGREE

The departmental requirements for unconditional admission as a master's degree candidate are

1. Fulfillment of the requirements for admission to the Graduate School;
2. Presentation of at least an undergraduate minor (preferably a major) in physical education;
3. Presentation of at least one undergraduate course in anatomy or

kinesiology and at least one in educational psychology or psychology of the particular field of the student's specialty (such as adolescent psychology); and

4. Possession of the ability to teach and demonstrate an acceptable variety of physical education activity skills and techniques.

A student may be conditionally admitted to the program and be permitted to start graduate course work while he fulfills the above requirements.

Physical education courses required of all majors and minors are 500, 501, 502, 503, and 504. Certain other courses may be required to remedy weakness in a student's background preparation.

There are two major programs and one minor program in physical education:

A major in physical education with a minor in a related field

This program is made up of 20 to 31 hours of required courses in physical education, 1 to 12 hours of elective courses in physical education, and 16 hours in a minor area related to physical education.

A major in physical education with no minor

In this program the student takes 20 to 31 hours of required courses in physical education, 1 to 12 hours of elective courses in physical education, and 16 hours in several fields related to physical education, with no attempt being made to achieve a minor in any one field.

A minor in physical education

Students majoring in a related area may minor in physical education. The minor consists of 16 hours, including 501, 502, and 503. For students who have not had adequate courses in tests and measurements and in principles of physical education, 400 and 406 are also required.

DOCTORAL DEGREE

The departmental qualifications for admission to advanced graduate study are

1. Fulfillment of the requirements of the Graduate School;
2. Presentation of professional course work equivalent to Southern Illinois University's undergraduate and master's program in physical education; and
3. Presentation of at least one course in anatomy and one in physiology.

A student may be permitted to start on advanced graduate work while making up deficiencies.

Three years of full-time graduate study after obtaining a bachelor's

degree or two years of full-time graduate study after a master's degree (or its equivalent) constitute the minimum requirement for the doctorate. The student and his adviser will determine a pattern of course work to equip the student in physical education and its allied fields, foundations of education, cultural courses outside the area of education, and for independent research.

The program of studies beyond the master's degree must include a minimum of 96 hours of approved graduate courses of which 60 hours must be in courses on the 500 level. Of these, 36 must be in Dissertation 600. Any dissertation credit beyond 36 hours may not be included as part of the 96-hour requirement. Additional course work beyond the 96 hours may be required to insure professional competence and broad cultural knowledge.

Competence in two foreign languages, the selection of which shall be approved by his adviser, or in one foreign language and statistics (similarly approved) is required of the student.

The procedure for beginning a program of study leading to a Ph.D. degree is as follows:

1. Submit an application for admission, with transcript or transcripts, to the Admission Office.
2. Submit a transcript to the Department of Physical Education.
3. Present acceptable professional recommendations to the Departments of Physical Education. If the transcript and recommendations are acceptable, the departments will appoint an adviser for the student.
4. Initiate a meeting with the appointed adviser to work out a program of study.

PHYSICS

Martin Joseph Arvin, Ph.D. (Illinois)	Richard L. Linster, Ph.D. (Illinois)
Charles J. Brasefield, Ph.D. (Princeton),	George A. Russell, Ph.D. (Illinois)
<i>Chairman</i>	Richard Elvis Watson, Ph.D. (Illinois)
John A. Eisele, Ph.D. (Ohio State)	Otis B. Young, Ph.D. (Illinois)

Graduate work in physics may be taken as a major or minor leading to the Master of Arts or Master of Science degree, or as part of a physical sciences program toward the Master of Arts, Master of Science, or Master of Science in Education degree. Research is in progress in solid-state physics, in cosmic rays, in theoretical nuclear physics, and in nuclear spectroscopy.

Each candidate for a master's degree in physics must take 501, 502, and 503 and write a thesis in one of the fields of research mentioned above. The remaining 24 hours of required graduate credit will be ob-

tained by completing certain of the following electives, at least two of which must be in physics: 405, 414, 450, 520; Mathematics 452, 453, 454, 480, 481, 555, 556.

Required courses for the physical sciences program are 405, 414, and 420 which have as prerequisites 305, 306, and 314.

PHYSIOLOGY

Frank J. Finamore, Ph.D. (Florida State) Harold M. Kaplan, Ph.D. (Harvard),
George H. Gass, Ph.D. (Ohio State) *Chairman*

Graduate courses in physiology may be taken as a major toward the Master of Arts, Master of Science, Master of Science in Education, and Doctor of Philosophy degrees, and as a minor toward the Master of Arts and Master of Science degrees.

The graduate prerequisites at the master's level include the equivalent of an undergraduate major in biological sciences plus inorganic, analytic, and organic chemistry and a minimum of one full year each of physics and mathematics.

For a master's degree in physiology, a student must ordinarily work two years and present an acceptable thesis based upon original investigation. Equivalent work completed elsewhere can be accepted in part.

Courses should be elected from other departments such that a major of about 32 hours and a minor of about 16 hours are attained. Because of the rising importance of biochemical and biophysical knowledge to physiology, students are urged to select their minors in those areas. Other biological sciences are also acceptable.

Training is provided in cellular, comparative, and mammalian physiology. Because of this trichotomy, entering students are urged first to obtain a basic knowledge of the whole field and then to specialize in one of the three areas after being advised by their major professor in conjunction with the chairman of the department.

PLANT INDUSTRIES

A. B. Caster, Ph.D. (Arizona), *Chairman* H. L. Portz, Ph.D. (Illinois)
I. G. Hillyer, Ph.D. (Michigan State) L. V. Sherwood, Ph.D. (Illinois)
J. F. Kelley, Ph.D. (Wisconsin) L. R. Tucker, Ph.D. (Massachusetts)
J. B. Mowry, Ph.D. (Rutgers) J. P. Vavra, Ph.D. (Purdue)

Graduate courses in plant industries may be taken for a major or a minor leading to the Master of Science degree.

The Master of Science degree can be earned in the Department of

Plant Industries in the general fields of soils, field crops, and horticulture.

It is customary to require supporting courses in botany, microbiology, chemistry, statistics, and other areas deemed essential for an intelligent approach to a problem in the student's chosen field. Once the general field has been selected, the research and thesis may be completed in any one of the many divisions of that field. In horticulture, for example, the research and thesis may be in olericulture, floriculture, landscaping, or pomology; in soils the problem may relate to fertility, soil physics, soil microbiology, or soil conservation; in field crops the problem may be directed toward weeds, grains, forages, or specialty crops. Often a problem can combine study in two of these more restricted divisions.

An oral examination over all graduate work and the submission of a thesis are required of each candidate for the degree.

Graduates earning the Master of Science degree in plant industries are in demand as technical specialists and sales executives for feed, seed, and fertilizer firms directly serving the farmer, in government agencies such as the Soil Conservation Service or the Food and Drug Administration, and in a continuation of graduate programs.

For additional information concerning programs and assistantships write to the Chairman, Department of Plant Industries.

PSYCHOLOGY

Sheldon Alexander, Ph.D. (Rochester)	John G. Martire, Ph.D. (Michigan)
Dee G. Appley, Ph.D. (Michigan)	James H. McHose, Ph.D. (Iowa)
Mortimer H. Appley, Ph.D. (Michigan), <i>Chairman</i>	Janet Rafferty, Ph.D. (Ohio State)
Nathan H. Azrin, Ph.D. (Harvard)	Guy A. Renzaglia, Ph.D. (Minnesota)
Neil A. Carrier, Ph.D. (Michigan)	Donald J. Shoemaker, Ph.D. (Ohio State)
Ernest J. Doleys, Ph.D. (Missouri)	Robert C. Steck, M.D. (Illinois)
William Gerler, Ph.D. (Illinois)	Bonnie B. Tyler, Ph.D. (Ohio State)
Jack W. Graham, Ph.D. (Purdue)	Forrest B. Tyler, Ph.D. (Ohio State)
Peter Hemingway, Ph.D. (Michigan State)	William Wagman, M.A. (Columbia)
Noble H. Kelley, Ph.D. (Iowa)	William C. Westberg, Ph.D. (Pennsylvania State)
Alfred Lit, Ph.D. (Columbia)	

The Department of Psychology offers graduate work leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees.

Doctoral programs are offered in general psychology and in the professional specialty areas of clinical psychology, counseling psychology, and industrial psychology. The Master of Arts and Master of Science degrees are normally awarded upon the successful completion of two years of study. A minimum of four years beyond the bachelor's degree is ordinarily required for the Ph.D. degree.

In addition to approved programs of study, doctoral students in the clinical, counseling, and industrial areas must complete the equivalent of a full-time academic year of internship in an agency approved by the department. Doctoral students in general psychology have an equivalent period of experience in teaching or research.

Minor programs may be worked out in all areas in which specialization is offered, provided that the candidate presents suitable preparation for the level of work to be undertaken.

No student will be accepted for graduate work in the department without prior application to and approval by the departmental admissions committee as well as the University's Admissions Office. Departmental application forms and information concerning fellowships and assistantships may be obtained from the Chairman, Department of Psychology.

RECREATION AND OUTDOOR EDUCATION

William H. Freeberg, D.Rec. (Indiana), William E. O'Brien, M.S. in P.Ed. (Indiana)
Chairman
Loren E. Taylor, Ed.D. (Columbia)

The graduate major curriculum in recreation and outdoor education is designed to meet the needs of (1) administrators and supervisors who wish to extend their professional competencies, (2) leaders and group workers already employed, especially those who seek to qualify for advancement, and (3) graduate students with undergraduate preparation in recreation or closely related fields who wish to prepare themselves for higher roles in recreation.

The graduate program consists of a core curriculum of 20 hours selected from 450, 480, 510, 520, 530, 540. Educational Administration and Supervision 500 or an equivalent research course in an area of specialization, such as Sociology 513, is required. A thesis is optional but is encouraged.

The graduate program is divided into four areas of specialization, and there are 32 hours of required courses.

1. School Recreation and Outdoor Education. Required courses: 450, 480, 510, 520, 530, 540, 550, 560, Educational Administration and Supervision 539. It is recommended that a minor be selected from one of the following fields: educational administration, guidance, health education, physical education, psychology, sociology, or a related field.

2. Community Recreation. Required courses: 450, 480, 520, 530, 540, 550, 560, Geography 470, and Sociology 486. It is recommended that a minor be selected from one of the following fields: sociology, government, conservation, forestry, education, or community development.

3. Agency, Church, and Youth Organization Work. Required courses: 450, 520, 530, 540, 550, 560, Sociology 481, 489, 511. It is recommended that a minor be selected from one of the following fields: sociology, guidance, physical education, educational administration, or a related field.

4. Recreation for the Ill and Handicapped (Hospital and Institution). Required courses: 450, 480, 520, 530, 540, 550, 560, Special Education 413, 417, 574. It is recommended that a minor be selected from one of the following fields: special education, rehabilitation, sociology, guidance, health education, psychology, or instructional materials.

To supplement the recreation leadership curriculum, selected courses from related fields are recommended: Educational Administration and Supervision 500, 539, Guidance 420, Government 467, Sociology 407, 481, 486, 511, Special Education 413, 417, 574.

The graduate minor in recreation consists of a minimum of sixteen hours from the recreation curriculum including 450 and 520.

A special course of study is designed for teachers and school administrators and church leaders who are primarily interested in the outdoor education program.

REHABILITATION

Nathan H. Azrin, Ph.D. (Harvard)
E. C. Cline, Ph.D. (Cincinnati)

Ernest J. Doleys, Ph.D. (Missouri)
Guy A. Renzaglia, Ph.D. (Minnesota)
Albert J. Shafter, Ph.D. (Iowa State)

REHABILITATION COUNSELING

The graduate program in rehabilitation counseling is a two-year program leading to a Master of Arts or Master of Science degree. A minimum of 72 hours is required for graduation, and the Master of Arts degree requires a thesis.

The curriculum is flexible so that it may be adapted to the trainee's previous training and experience and to his future occupational interests. The curriculum includes course work, practicum, and field work.

Course work includes required courses, required equivalents, and electives. Required courses must be taken in the departments designated to offer them. Required equivalents are courses that must be taken, but the trainee may select the department. For example, the required courses in methodology may be taken in guidance, psychology, sociology, or special education. Electives are selected on the basis of conferences with the trainee and his adviser. Course work is taken in the departments of guidance, physiology, psychology, sociology, special education, and speech correction. A central core of courses in counseling and rehabilitation integrates the offerings of these departments.

The program is orientated toward developing competency in eleven general areas. Suggested courses for satisfying the requirements in each area are listed below.

Introduction and Legislative Aspects of Rehabilitation. Sociology 480; Government 438

Human Development and Behavior. Psychology 431, 440, 451; Sociology 426

Medical Aspect of Rehabilitation. Physiology 455

Cultural and Psycho-Social Aspects of Disability. Special Education 410, 571, 572

Psychological Evaluation. Psychology 421, 541, 542, 543, 544, 545, 546; Guidance 422, 522, 535; Special Education 573

Counseling Theory and Practice. Guidance 537, 575A; Psychology 536, 537, 593N

Occupation and Education Information. Guidance 481, 541

Community Resources. Sociology 481, 482

Placement and Follow-up. Guidance 573; Psychology 573

Research and Statistics. Guidance 420, 520, 521; Mathematics 410, 411, 412; Psychology 420, 520, 521, 522; Sociology 511, 513, 514

Pre-counseling Experience. Guidance 574; Psychology 593M

An integral part of the training for rehabilitation counseling includes agency orientation, practicum, and field work experiences. Trainees receive concurrent assignments in these areas along with their course work throughout their two-year programs. In addition, each trainee receives a three-month training assignment in the field.

In general, first-year student activity is directed toward orientation and pre-counseling experiences, second-year activity toward practicum experiences in counseling. The general plan follows:

First Year

1. ORIENTATION. Leaders in rehabilitation are brought to the campus to present papers and confer with both students and staff. Efforts are made to have at least one consultant per month. In addition, trips are arranged to various rehabilitation settings to observe clients, staff, techniques, and physical facilities. These settings include medical rehabilitation centers, mental hospitals, schools for the retarded, and prisons.

2. PRE-COUNSELING. Prior to actual counseling work, students work under supervision in several different settings such as (1) participation in the annual interview of Division of Vocational Rehabilitation clients on campus, (2) assignments in the Co-ordinated Services for Handicapped Students, (3) a three-month period of orientation and field work with the Rehabilitation Department of Anna State Hospital, and (4) part-time practicum with the local Division of Vocational Rehabilitation office.

Second Year

COUNSELING. This includes an assigned and supervised case load of individuals who have sought counseling or who are clients of the Co-operative Clinical Services Center.

Summer Work

Each student is required to complete a training assignment in an approved rehabilitation setting under supervision. This may be done in such facilities as a state mental hospital, a community agency for the blind, a tuberculosis sanitarium, a summer camp for handicapped persons, a state penitentiary, a local office of the Division of Vocational Rehabilitation, or a rehabilitation center.

REHABILITATION ADMINISTRATION

The graduate program in rehabilitation administration is a 48-hour program leading to the Master of Science degree. In general, the curriculum is a modification of the rehabilitation counseling program with less emphasis on counseling and testing. Departments offering courses which are utilized include guidance, physiology, psychology, sociology, special education, and speech correction. Since the program is directed toward persons who have had considerable experience in the field, those courses listed in the rehabilitation counseling program will serve as a guide in preparing a final selection of course work for each student. Moreover, equivalent courses may be substituted. In addition to the suggested core courses, students may be encouraged to take work in journalism, secretarial and business education, or speech. In every case, the following requirements apply:

1. The completion of 48 graduate hours. Academic work shall lead toward a general knowledge of medical and paramedical terminology and practice, fundamentals in counseling, community resources and organization, allied professions, occupational information, methodology, administration and supervision, and current concepts relating to rehabilitation theory and practice.
2. A thesis, or a research paper of equivalent standard.
3. Three to six months of satisfactory, supervised experience in an approved rehabilitation setting may be required after the major portion of the course work has been completed. Satisfactory, supervised experience is defined as employment in a rehabilitation setting under the direction of a person of competent and certified experience.

In every case, the student's program will be based on previous experience and occupational goals. Programs will be approved by a graduate

supervisory committee, acting under policies established by the Rehabilitation Institute and the Graduate School.

SECONDARY EDUCATION

Raymond H. Dey, Ed.D. (Washington University)

Claude J. Dykhouse, Ph.D. (Michigan)

Troy W. Edwards, Ed.D. (Indiana)

R. Jean Fligor, Ph.D. (Michigan State)

Clarence D. Samford, Ph.D. (New York),

Chairman

Work in this department may be taken toward the Master of Science in Education degree and the Doctor of Philosophy degree. It is intended for those who expect to become teachers or to work in other capacities in the secondary school. Work in this department may be taken toward the Specialist's Certificate.

A program consisting of forty-eight hours of work for the master's degree will be arranged jointly by the Department of Secondary Education and the subject matter area department in which the student plans to teach. A student's undergraduate record, experience, and future plans will be taken into account in determining the number of courses in secondary education and subject matter to be taken. The same procedure will be followed for those who plan to pursue administrative or supervisory duties in the secondary school. Appropriate elective courses will be found for those individuals who plan to work in junior colleges or other post-high-school situations.

It is assumed that the future plans of candidates seeking the Doctor of Philosophy degree will involve one or more of the following areas: administration of a secondary school, supervision of selected area(s) in a secondary school, or the teaching of courses in education in a teacher-training institution, directing the student teaching program and/or student teachers in a secondary education laboratory school.

Those who work toward the doctor's degree will be guided by the following:

Required courses: 36-48 hours of dissertation; 508, 550, 562, 564, 580; Guidance 562. If identical or equivalent courses have not been previously taken, guided electives will be substituted.

Guided electives, to complete 96 hours with preference being given to the following: 16-32 hours of a subject field commonly taught in secondary school; Higher Education, 579, 581, 582, 583; Educational Administration and Supervision 431, 460, 503, 539, 554, and 556; 12 hours of educational psychology and guidance including Guidance 551 and 562.

A minor is available on the doctoral level in all areas where a major

is available on the master's level. A student is to select his minor only with the approval of his doctoral advisory committee.

SECRETARIAL AND BUSINESS EDUCATION

Harry B. Bauernfeind, M.A. (Northwestern)

Van A. Buboltz, M.A. (Northwestern)

Viola M. DuFrain, Ph.D. (Chicago)

Bonnie A. Lockwood, Ph.D. (Pittsburgh)

Harves Rahe, Ed.D. (Indiana), *Chairman*

Leonard J. West, Ph.D. (Columbia)

Graduate courses in business teacher education may be taken as a major or minor in the Department of Secretarial and Business Education leading to the Master of Science in Education degree. The program in business teacher education consists of a minimum of 48 hours of course work distributed as follows:

1. 18-24 hours in business teacher education courses;
2. 12-18 hours in other School of Business courses;
3. 8-16 hours in College of Education courses; and
4. 3-12 hours of approved electives.

The graduate program is planned for those students who have an adequate subject-matter and professional-education background in at least one of the following business teaching areas: (1) secretarial, (2) general business, (3) bookkeeping and accounting, or (4) distributive education. Deficiencies in background, if any, must be eliminated by taking appropriate courses.

The graduate program is aimed at upgrading and making more proficient those individuals who have already met or surpassed the minimum requirements for teaching business subjects in the high schools of Illinois. The dual purpose of the program is to provide advanced professional education in business teaching fields and to develop competence in utilizing research findings in the field. In keeping with the general requirements of the Graduate School, each student is required to write a research paper. Those who have special interest and ability in research or who expect to go on to advanced graduate study are encouraged to write a thesis.

Graduate courses in business teacher education also may be taken as a part of a graduate program in the Department of Secondary Education leading to the Master of Science in Education degree.

SOCIOLOGY

Melvin S. Brooks, Ph.D. (Wisconsin)

Paul J. Campisi, Ph.D. (Chicago), *Chairman*

Richard C. Franklin, Ed.D. (Columbia)

Joseph K. Johnson, Ph.D. (Washington University)

Herman R. Lantz, Ph.D. (Ohio State)	Eloise C. Snyder, Ph.D. (Pennsylvania State)
Peter A. Munch, Ph.D. (Oslo)	
Louis Petroff, Ph.D. (Southern California)	George M. Stabler, Ph.D. (Michigan State)
Richard W. Poston, B.A. (Montana)	
Douglas L. Rennie, Ph.D. (Yale)	William J. Tudor, Ph.D. (Iowa State)
A. J. Shafter, Ph.D. (Iowa State)	James D. Turner, Ph.D. (Indiana)
Charles R. Snyder, Ph.D. (Yale)	Ronald Vander Wiel, M.S.W. (Washington University)

The Department of Sociology offers major and minor programs for the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Graduate courses in sociology may also be applied against the requirements of the social studies program.

Detailed statements of specific departmental requirements for the Master of Arts and the Doctor of Philosophy degrees are available upon request.

SPECIAL EDUCATION

Roger M. Frey, Ed.D. (Illinois)	B. E. McKay, Ph.D. (Syracuse)
O. P. Kolstoe, Ph.D. (Iowa), <i>Chairman</i>	Dan Rainey, M.S.Ed. (Southern Illinois)
	Marjorie Stull, M.S.Ed. (Southern Illinois)

Graduate majors in the Department of Special Education are available in specific areas of exceptionality. These majors meet state requirements for certification. For selected individuals, graduate majors are available also in the fields of supervision and administration. Desirable background courses are those offered in psychology, guidance, sociology, and speech correction. Each prospective student should consult the chairman of the department prior to outlining a course of study to be followed. A major in this department leads to the Master of Science in Education degree.

No particular group of courses is listed for the major in special education, since each student must specialize in one particular area, such as deaf and hard of hearing. Among the more general courses which majors in special education will take, however, are these in the Department of Special Education: 413, 414, 428, 513, 577. Other courses will be selected by the student and his adviser, according to the area of specialization.

SPEECH

A. Craig Baird, M.A. (Columbia)	Cameron W. Garbutt, Ph.D. (Louisiana State)
Earl E. Bradley, Ph.D. (Northwestern)	
Lester R. Breniman, Ph.D. (Ohio State)	Ralph A. Micken, Ph.D. (Northwestern),
William E. Buys, Ph.D. (Wisconsin)	<i>Chairman</i>
Marion L. Davis, Ph.D. (Wisconsin)	David Potter, Ph.D. (Columbia)
	C. Horton Talley, Ph.D. (Iowa)

Graduate courses are offered in speech with a major or minor in general speech (rhetoric and public address, or interpretation) toward the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Graduate courses in all fields of speech may be taken as a major or minor leading to the Master of Science in Education degree.

A minor is available on the doctoral level in all areas where a major is available on the master's level. A student is to select his minor only with the approval of his doctoral advisory committee.

SPEECH CORRECTION

John O. Anderson, Ph.D. (Ohio State)
 Chester J. Atkinson, Ph.D. (Ohio State)
 I. P. Brackett, Ph.D. (Northwestern),
Chairman

Gene Jerome Bruten, Ph.D. (Illinois)
 Hugo H. Gregory, Ph.D. (Northwestern)
 Michael S. Hoshiko, Ph.D. (Purdue)
 Herbert Koepp-Baker, Ph.D. (Iowa)

Speech correction, pathology, and audiology is an area which has as its objective the training of qualified personnel to work with people handicapped in either speech or hearing. Course work in this area leads to certification as a speech therapist in the public schools in Illinois and meets basic membership requirements in the American Speech and Hearing Association.

Graduate courses in the Department of Speech Correction may be taken as a major leading to the Master of Arts, Master of Science in Education, Master of Science, and Doctor of Philosophy degrees.

THEATER

Sherwin F. Abrams, Ph.D. (Wisconsin)
 Mordecai Gorelik
 Archibald McLeod, Ph.D. (Cornell),
Chairman

Christian H. Moe, Ph.D. (Cornell)
 Charles W. Zoeckler, B.A. (West Virginia)

The Department of Theater offers courses leading to the Master of Arts, Master of Science, and Master of Science in Education degrees. The candidate is expected to plan his program in consultation with the chairman of the department. Each candidate will do a thesis or its equivalent (a thesis production, for example) under the supervision of the chairman of his advisory committee appointed from the department. Graduate courses in theater may be taken as a minor leading to the Ph.D. in speech.

An undergraduate major in theater is not essential for admission to candidacy for a graduate degree. A student with an undergraduate major

in speech or English, for instance, may “audit” undergraduate courses in theater to make up any deficiencies.

Graduate students are urged to supplement their class work with practical experiences in acting and production: membership in the Southern Players is open to graduate students, and they may also earn graduate course credit as members of the Southern Touring Company and the Summer Stock Company.

TRANSPORTATION

A Master of Science degree in transportation is available through the Transportation Institute in co-operation with the School of Business. Courses are selected from several departments of the University with consideration given to the student’s specialized interest and education. Certain courses in transportation and traffic management are required.

ZOOLOGY

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|---|---|
| Richard E. Blackwelder, Ph.D. (Stanford) | George Garoian, Ph.D. (Illinois) |
| John W. Crenshaw, Jr., Ph.D. (Florida) | Willard M. Gersbacher, Ph.D. (Illinois) |
| John C. Downey, Ph.D. (California) | W. D. Klimstra, Ph.D. (Iowa State) |
| Harvey I. Fisher, Ph.D. (California),
Chairman | Richard R. Kudo, D.Sc. (Tokyo) |
| Charles L. Foote, Ph.D. (Iowa) | William M. Lewis, Ph.D. (Iowa State) |
| Edwin C. Galbreath, Ph.D. (Kansas) | Howard J. Stains, Ph.D. (Kansas) |

Graduate work in zoology may be taken as a major or a minor toward the Master of Arts, Master of Science, and Doctor of Philosophy degrees and as part of a program in biological sciences toward the Master of Science and Master of Science in Education degrees.

Candidates for the Master of Science and Master of Arts degrees must have the consent of the department and at least thirty-five hours of undergraduate credit in zoology equivalent to 100, 102, 103, 202, 300, 401, and one of the following courses: 303, 306, 335, 408, 461, 465. Further required undergraduate work includes one year of chemistry, one year of botany, two quarters of physics, and one year of, or demonstrated proficiency in, a foreign language. Deficiencies in undergraduate preparation may be removed concurrently with graduate work.

Completion of work for the Master of Science and Master of Arts degrees requires, in addition to the general requirements of the Graduate School, an approved thesis, Zoology 581, and continuous registration in Zoology 582. A minor outside the department is recommended.

In addition to the above requirements for the master's degree, the Doctor of Philosophy degree requires organic chemistry, animal physiology, experience in marine ecology, and demonstrated proficiency in statistics and two foreign languages.

EDWARDSVILLE UNITS

A program of graduate study is available at the Alton and East St. Louis campuses of Southern Illinois University. Early in 1961 there were 109 faculty members, approved to teach an aggregate of 271 graduate courses at these campuses. Of those courses, 71 were in education, 138 in liberal arts, 23 in business, and 39 in fine arts. Further increases in graduate staff and courses are anticipated.

The fields in which major study may be pursued are educational administration and supervision, elementary education, guidance, secondary education, and special education. Graduate minors are available in most business, fine arts, and liberal arts fields, as well as in the education areas.

Graduate advisers are available at Alton and East St. Louis for all of the major fields in education listed above. Each student seeking a master's degree in any of these fields must work out an approved master's program with the appropriate adviser. There are advisers, also, in some of the non-education fields at Alton and East St. Louis, who can advise students in their particular subject fields. These advisers keep close liaison with their counterparts at Carbondale to assure that the courses on a student's program will be suitable ones. All programs culminating in a degree conferred at Carbondale must have approval of the major department there.

Graduate courses taken on any campus of Southern Illinois University may be used for degree-earning purposes at any other campus, but the courses must be ones which the major adviser has approved for a student's program of study leading toward a graduate degree. Non-education graduate students are basically enrolled at Carbondale and have a major adviser there, but they may take part of their work toward a graduate degree or toward a sixth-year specialist's certificate at Alton or East St. Louis, provided that the particular courses needed are available at the latter places and that they have been authorized for the student's program by his adviser. Students who major in non-education fields at present must expect to take a substantial part of their graduate work at Carbondale. Their graduate records are kept at Carbondale, and their thesis work and oral examinations are cared for at that campus.

BUSINESS DIVISION

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| Walter L. Blackledge, Ph.D. (Iowa) | Norbert V. Schmitt, M.S. in C. (St. Louis) |
| Mary M. Brady, Ed.D. (New York) | Joe R. Small, M.B.A. (Kansas) |
| Leo Cohen, Ph.D. (California) | Thomas E. Van Dahm, Ph.D. (Michigan) |
| John J. Glynn, Ph.D. (St. Louis), <i>Head</i> | Clarence E. Vincent, D.B.A. (Indiana) |
| Richard J. Milles, M.S. in C. (St. Louis) | Dimiter E. Wassen, D.P.Ec. (Vienna) |

FINE ARTS DIVISION

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| Lloyd G. Blakely, D.M.A. (Boston) | Herrold E. Headley, Ph.D. (North Texas State) |
| Kenwyn G. Boldt, M.Mus. (Indiana) | Glen E. Howerton, M.S. (Fort Hays Kansas State) |
| Evelyn T. Buddemeyer, B.S. in Ed. (Central Missouri State) | Assen D. Kreteff, Ph.D. (Munich) |
| C. Dale Fjerstad, M.Mus. (Indiana) | John A. Richardson, Ed.D. (Columbia) |
| Robert Hawkins, A.M. (Michigan) | Edwin B. Warren, Ph.D. (Michigan) |

EDUCATION DIVISION

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| William F. Banaghan, Ph.D. (Purdue) | Howard C. Nesbitt, Ed.D. (Columbia) |
| David E. Bear, Ed.D. (Washington University) | John G. Rockwell, Ph.D. (Chicago) |
| Gordon C. Bliss, Ed.D. (Nebraska) | Harry H. Smith, Ed.D. (Washington University) |
| H. Bruce Brubaker, Ed.D. (Indiana) | Myllan Smyers, Ed.D. (Indiana) |
| Regan Carpenter, Ed.D. (Colorado) | Norman E. Showers, M.S. (Southern California) |
| Alfred D. Curry, M.Ed. (Missouri) | Richard D. Spear, H.S.D. (Indiana) |
| Lawrence E. Dameron, Ph.D. (Chicago) | Roy S. Steinbrook, Ed.D. (Indiana) |
| Howard V. Davis, Ed.D. (Washington University) | Robert H. Steinkellner, Ed.D. (Missouri) |
| Frank L. Eversull, Ph.D. (Yale) | Lawrence E. Taliana, Ph.D. (Purdue) |
| Betty Jo Kelley, M.S. in Ed. (Southern Illinois) | Raymond E. Troyer, Ph.D. (Chicago) |
| Alfred E. Kuenzli, Ed.D. (Indiana) | Mark M. Tucker, Ed.D. (California) |
| Cameron W. Meredith, Ph.D. (Michigan), <i>Head</i> | Leonard B. Wheat, Ph.D. (Columbia) |

HUMANITIES DIVISION

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| James C. Austin, Ph.D. (Western Reserve) | Nicholas T. Joost, Ph.D. (North Carolina), <i>Head</i> |
| Milton B. Byrd, Ph.D. (Wisconsin) | Ruth Kilchenmann, Ph.D. (Southern California) |
| Robert W. Duncan, Ph.D. (Cincinnati) | Charles Parish, Ph.D. (New Mexico) |
| William T. Going, Ed.D. (Michigan) | Jules Zanger, Ph.D. (Washington University) |
| Albert Edwin Graham, Ph.D. (Princeton) | |
| Paul Guenther, Ph.D. (North Carolina) | |
| Charles S. Hensley, Ph.D. (Missouri) | |

SCIENCE AND TECHNOLOGY DIVISION

Ralph W. Axtell, Ph.D. (Texas)
Marinus P. Bardolph, Ph.D. (Iowa)
William C. Bennewitz, Ph.D. (Illinois)
Harold E. Broadbooks, Ph.D. (Michigan)
Kermit G. Clemans, Ph.D. (Oregon),

Head

Joseph S. Davis, Ph.D. (Iowa)
Donal G. Myer, Ph.D. (Ohio State)
Lawrence R. McAneny, Ph.D. (Kansas)

Clellie Oursler, Ph.D. (Illinois Institute
of Technology)
Irwin H. Parrill, Ph.D. (Iowa)
William J. Probst, Ph.D. (Iowa)
David G. Rands, Ph.D. (Iowa)
William C. Shaw, Ph.D. (Iowa State)
Eric A. Sturley, Ed.D. (Columbia)
Jesse E. White, Ph.D. (Indiana)
Frederick W. Zurheide, M.S. (Southern
Illinois)

SOCIAL SCIENCES DIVISION

Richard C. Baker, Ph.D. (Columbia)
Robert F. Erickson, Ph.D. (Illinois)
Hyman H. Frankel, Ph.D. (Illinois)
Christine Gilmore, M.S. (Kansas City)
Kurt Glaser, Ph.D. (Harvard)
Richard E. Guffy, M.S. (Northwestern)
Melvin E. Kazeck, Ed.D. (Columbia)
Stanley B. Kimball, Ph.D. (Columbia)
S. D. Lovell, Ph.D. (Ohio State)
Seymour Z. Mann, Ph.D. (Chicago)
Mary C. Megee, Ph.D. (Chicago)

Allan J. McCurry, Ph.D. (Cornell)
Gunter W. Remmling, Ph.D. (Berlin)
Patrick Riddleberger, Ph.D. (California)
Herbert H. Rosenthal, Ph.D. (Harvard),
Head
Elliott M. Rudwick, Ph.D. (Pennsylvania)
Gerald J. T. Runkle, Ph.D. (Yale)
John W. Snaden, Ph.D. (Michigan)
Donald L. Taylor, Ph.D. (Duke)
Jack B. Thomas, Ph.D. (Indiana)
Philip E. Vogel, Ph.D. (Nebraska)

Course Descriptions

THIS CHAPTER contains the descriptions of courses offered by the University on the graduate level. Graduate courses are in three categories:

1. Courses numbered 400 to 499 are open to both seniors and graduate students. Seniors who wish to receive graduate credit for a 400 course during their last term of undergraduate study must apply for admission to the Graduate School and must obtain, at the time of registration, the approval of the instructor and the dean of the Graduate School; and the instructor must indicate on the class card which is submitted to the Registrar at the end of the term that the student has earned graduate credit in the course.

2. Courses numbered 500 to 599 are open only to graduate students. Undergraduates of advanced senior standing who are within sixteen hours of graduation and who have applied to the Graduate School may take 500-level courses for graduate credit during the last term of undergraduate study.

3. The course numbered 600 represents work on the doctoral dissertation.

Courses are listed below by departments, as they are offered at Carbondale. At the Edwardsville campuses they are offered, in part, by the divisions. The fact that these courses are listed does not mean that all of them are available on both campuses of the University, or that they are offered each year.

Information concerning when and where the courses are available appears in the following issues of the *Southern Illinois University Bulletin*: Schedule of Classes (Carbondale), Schedule of Classes (Edwardsville), and Summer Session (Carbondale). Copies may be obtained from General Publications, Southern Illinois University, Carbondale, Illinois.

ACCOUNTING

410-4. SURVEY OF ACCOUNTING. To permit non-accounting majors and

teachers to study advanced accounting from the standpoint of its usefulness in controlling and administering an enterprise. Critical analysis of reports, statements, and other accounting data but with little attention given to accounting techniques used in collecting and reporting such information. Prerequisite: 250 or 253 or equivalent. Not open to accounting majors.

- 432-4. PROBLEMS IN FEDERAL TAXATION. Income tax problems which arise from partnership, corporation, estate, and trust types of organization. Federal estate and gift taxes. Student does research in source materials in arriving at solutions to complicated tax problems. Prerequisite: 331.
- 442-4. ADVANCED COST ACCOUNTING. Standard costs and distribution costs. Special problems in cost accounting, including joint product, by-product, and capacity costs. Prerequisite: 341.
- 458-4. ACCOUNTING SYSTEMS. Problems in accounting systems design and installation. Examination of existing systems and practice in system design. Prerequisites: 341, 352.
- 459-4. INTERNSHIP IN ACCOUNTING. Supervised work experience in professional accounting. Prerequisite: outstanding record in accounting and recommendation of the committee on internship.
- 461-4. CPA AND ADVANCED ACCOUNTING PROBLEMS. A study of the knowledge and techniques required for solving problems from the uniform examinations sponsored by the American Institute of Certified Public Accountants. Some problems also drawn from other sources. Prerequisites: 341, 352.
- 500-2 to 5. READINGS IN ACCOUNTING. Directed readings on selected topics in the accounting field.
- 501-2 to 5. INDIVIDUAL RESEARCH IN ACCOUNTING. Directed research in selected areas of accounting.
- 550-4. ACCOUNTING THEORY. Contemporary advanced accounting theory, including controversial issues with emphasis on net income determinations and asset valuation. Particular attention given to current publications of the profession and governmental agencies. Prerequisite: 352 or 410 or equivalent.
- 557-4. ADVANCED AUDITING. A study of more advanced auditing procedures applicable to medium and large scale businesses. Careful attention is given to auditing standards as outlined by the American Institute of Certified Public Accountants, and the rulings of governmental agencies, such as the Securities and Exchange Commission. The case method is utilized extensively. Prerequisite: 356 or consent of instructor.
- 562-4. CERTIFIED PUBLIC ACCOUNTING AND ADVANCED ACCOUNTING PROBLEMS II. A problems course including some highly technical Certified Public Accountant examination problems not studied in undergraduate courses.
- 565-4. CONTROLLERSHIP. A study of the function of controllership in a business organization. Includes an analysis of the duties and responsibilities of a controller, in his capacity as the chief accounting executive of a firm. Attention is given to the contribution of a controller to effective planning, co-ordination, and control through accounting. Prerequisites: 341 and 352 or consent of instructor.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

AGRICULTURAL INDUSTRIES

- 410-2 to 4. PROBLEMS IN AGRICULTURAL SERVICES. Discussion, assignments, and special workshops on problems related to in-service training programs in the agriculturally related fields. Development of more effective programs in working with farm people. Prerequisite: graduate student in agricultural services or consent of instructor.
- 411-3. AGRICULTURAL EXTENSION. A study of the history, organization, objectives, programs, and methods of agricultural extension work. Prerequisites: Journalism 393 and a course in psychology or sociology or consent of instructor.
- 414-4. AGRICULTURAL PROBLEMS AND POLICIES. Recognition of agricultural problems and their origins. Attempts to solve them. Prerequisites: Economics 205 and consent of instructor.
- 450-4. ADVANCED FARM MANAGEMENT. Methods of analyzing farm enterprises, comparing farm enterprises, comparing farm businesses, allocating farm resources, combinations of enterprises, and production factors. Prerequisite: 350. Field trips cost about \$5.
- 452-4. AGRICULTURAL PRICES. Fluctuation in the general price level, causes and stabilization policies as they affect agricultural prices. Price determination including the measurement of supply and demand, elasticity, and the theory of price stabilization as applied to agriculture. Prerequisites: Economics 205 and consent of instructor.
- 456-3. AGRICULTURAL CO-OPERATIVES. (Agricultural Marketing I.) Development of the agricultural co-operative movement, agricultural co-operative organization, legal requirements, principles and practices of agricultural co-operative associations. Prerequisites: 354, Economics 205, or consent of instructor.
- 457-4. LIVESTOCK MARKETING. (Agricultural Marketing II.) Problems and their solutions in marketing livestock. Field trip to market center to observe operating problems costs about \$5. Prerequisites: 354, Economics 205, or consent of instructor.
- 458-4. GRADING AND MARKETING OF FIELD CROPS. (Agricultural Marketing III.) Grading and marketing factors affecting the quality of grain and hay crops; standards employed in their classification and grading in the commercial markets; laboratory practices in grading; economic problems and market operations in marketing field crops. Field trips to commercial grain-grading laboratory and marketing center cost about \$5. Prerequisites: 354, Economics 205, Plant Industries 209, or consent of instructor.
- 471-4. LAND RESOURCE ECONOMICS. (Same as Forestry 471 and Economics 471.) The use of land as an economic variable in production of goods and services; land markets; group versus individual conflicts; elementary land resources planning techniques. Field trips cost about \$5. Prerequisite: Economics 205, 206, or Forestry 470.
- 473-4. MATERIALS HANDLING. A study of different systems for handling materials on the farm. Use of air, conveyors, and water to move products. Components of successful systems for storing and using products on the

- farm. Planning of buildings and equipment to be most effective. Economic problems in establishing various types of materials handling systems. Required field trips cost about \$5. Prerequisites: 350 and 215 or 373.
- 520-1 to 6. READINGS. Contemporary books and periodicals on selected areas of the field.
- 520b-1 to 6. READINGS IN RESOURCE ECONOMICS. (Same as Forestry 520b and Economics 502.) Directed reading in the field of natural resource economics.
- 550-4. PRODUCTION MANAGEMENT. A study of the principles of production economics upon which problems in agricultural production and resource use can be analyzed. Emphasis on principles applicable to the farm business and to farm policy, including concepts relating to the decision-making process and farm planning under perfect and imperfect knowledge and with limited resources. Prerequisites: 12 hours equivalent in economics and agricultural economics and consent of instructor.
- 554-4. ADVANCED AGRICULTURAL MARKETING. Current complex problems in agricultural marketing and methods of developing solutions; co-operative activities. Prerequisite: 12 hours or equivalent in economics and agricultural economics.
- 575-1 to 6. RESEARCH. Directed research in selected areas of agricultural industries.
- 581-1 to 6. SEMINAR. Problems relating to various phases of the field of agricultural industries, such as farm management, marketing, prices, farm policy, land economics.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

ANIMAL INDUSTRIES

- 415-4. ANIMAL NUTRITION. Physical and chemical properties of nutrients; digestion and metabolism; functions and utilization of nutrients; principles involved in determination of nutritive requirements. Prerequisite: 315.
- 420-4. COMMERCIAL POULTRY PRODUCTION. Broilers, layers, and turkeys as adapted to poultry specialty farms. Field trips. Prerequisite: 125.
- 423-3. POULTRY NUTRITION. Nutrients, vitamins, chemical and biological analysis as related to production. Ration requirements and formulation, methods and economics of feeding. Prerequisites: 125, 315.
- 430-4. DAIRY PRODUCTION. Milk production; feeding, breeding, calf raising; records, buildings, and equipment; sanitation; and diseases. Field trip, approximate cost \$2.00. Prerequisites: 231, 315.
- 431-4. PHYSIOLOGY OF REPRODUCTION AND ARTIFICIAL INSEMINATION OF FARM ANIMALS. The anatomy and physiology of reproduction and the principles of artificial insemination in farm animals. Prerequisites: 105 or 231, Zoology 100.
- 433-3. DAIRY CATTLE FEEDING. Nutrient requirements of dairy cattle. Feeding calves and heifers for economical growth and cows for economical milk production. Pasture, hay, and silage utilization in milk production. Prerequisites: 231, 315.
- 457-4. LIVESTOCK MARKETING. (Same as Agricultural Industries 457.)

- Problems and their solution in marketing livestock. Field trip to market center to observe operating problems. Prerequisite: Economics 205.
- 465-4 to 5. SWINE PRODUCTION. Breed selection, breeding, feeding, management, and marketing of swine. Field trip, approximate cost \$3.00. Prerequisites: 105, 315.
- 480-4. SHEEP PRODUCTION. Breeding, feeding, and management of sheep. Field trip, approximate cost \$3.00. Prerequisites: 105, 315.
- 485-4. BEEF PRODUCTION. Breeding, feeding, and management of beef and dual-purpose cattle. Field trip, approximate cost \$3.00. Prerequisites: 105, 315.
- 486-4. THE RANGE LIVESTOCK INDUSTRY. Designed to acquaint advanced animal industries students with range livestock operation; consists of full-time classroom review of beef cattle and sheep production followed by a two- to three-week field trip through the range area. Prerequisites: 380, 385. Summer only.
- 487-3. COMMERCIAL LIVESTOCK FEEDING. Principles and problems in fattening beef cattle and sheep for market. Prerequisites: 105, 315.
- 505A-5, 505B-2. RESEARCH METHODS IN AGRICULTURAL SCIENCE. Training and experience in designing experiments and use of various techniques in agricultural research. Prerequisite: consent of instructor.
- 520-1 to 6. READINGS IN ANIMAL INDUSTRIES. Readings in specialized fields under direction of approved graduate specialists.
- 525-4. ADVANCED POULTRY PRODUCTION. Study and interpretation of the objectives, design, and results of research in poultry feeding, breeding, and management.
- 530-4. ADVANCED DAIRY PRODUCTION. Study and interpretation of research in dairy farming, including buildings, herd management, quality milk production, and dairy marketing problems.
- 565-4. ADVANCED SWINE PRODUCTION. Study and interpretation of research in swine feeding, breeding, housing, management and marketing problems.
- 575-1 to 6. INDIVIDUAL RESEARCH. Investigation of a problem in animal science under the supervision of an approved graduate specialist in that field.
- 580-4. ADVANCED SHEEP AND WOOL PRODUCTION. Research findings in sheep and wool production problems.
- 581-1 to 6. SEMINAR. Problems relating to various phases of animal industries.
- 585-4. ADVANCED BEEF PRODUCTION. Principles and practices in beef cattle production in the light of research findings.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

ANTHROPOLOGY

- 400-4. MAN AND CULTURE. The nature of culture and cultural process. Relationships of culture and man as an individual and as a group. Emphasis on "the anthropological point of view."
- 401-4. LANGUAGE IN CULTURE. Language as a part of culture. Linguistics and the study of culture.
- 404-4. PRIMITIVE ART AND TECHNOLOGY. The development of man as

- a tool-using and art-loving being. Artistic and technological traditions of non-Western peoples, past and present.
- 405-4. SOCIAL ANTHROPOLOGY. A comparative approach to the organizational features of human groups. Functional aspects and distributions of kinship, political, religious, and economic systems.
- 408-4. HISTORY OF ANTHROPOLOGICAL THOUGHT. The growth of Anthropology to about 1850, followed by a more intensive survey of the concepts and ideas of anthropology during the past hundred years.
- 409-4. ANTHROPOLOGY AND MODERN LIFE. The applications of anthropological principles to the solution of problems of the modern world. Contributions of anthropology to the work of the educator, social worker, administrator, business man, government official, and other specialists dealing with man in Western and non-Western cultures.
- 413-3. INTRODUCTION TO GENERAL LINGUISTICS. The theory and method of linguistics. Analysis and classification of languages.
- 414-3. GENERAL PHONETICS AND PHONEMICS. The theory and practice of linguistic recording and the analysis of sound systems.
- 415-3. GENERAL GRAMMATICAL ANALYSIS. The theory and method of analyzing grammatical systems.
- 420-3. INDIANS OF NORTH AMERICA. A survey of proto-historic and historic Indian and Eskimo cultures north of Mexico.
- 421-3. INDIANS OF MESO-AMERICA. A survey of the native peoples of Mexico and Central America, their history and their contributions to modern mestizo culture.
- 422-3. INDIANS OF SOUTH AMERICA. A survey of the native peoples of South America and the West Indies, their history and their contributions to the life of modern nations.
- 430-3. ARCHAEOLOGY OF NORTH AMERICA. A survey of prehistoric Indian and Eskimo cultures north of Mexico.
- 431-3. ARCHAEOLOGY OF MESO-AMERICA. A survey of prehistoric Indian cultures of Mexico and Central America.
- 432-3. ARCHAEOLOGY OF SOUTH AMERICA. A survey of prehistoric Indian cultures of South America.
- 462-3. SOCIAL ORGANIZATION. Deals specifically with those aspects of social organization which are based on kin and status relationships.
- 465-3. RELIGIONS OF THE WORLD. The origins of religion and a survey of religions past and present. Emphasis on the beliefs of non-Western peoples.
- 470-3. CULTURAL BACKGROUND OF ART. The role of culture in artistic expression. Art as a system in culture. The artist's role in society. Aesthetic aspects and appreciation of non-Western art.
- 475-3. CULTURAL BACKGROUND OF EDUCATION. How societies pass on their cultural patterns. Comparative study of educational processes over the world. Our own methods and goals in helping non-Western peoples adapt themselves to Western culture.
- 480-3. CULTURE-HISTORY OF SOUTHERN ILLINOIS. A survey of the human occupation of southern Illinois from earliest Indian times to modern communities and ethnic groups.
- 481-3 to 6. SEMINAR IN ANTHROPOLOGY. Students should consult the department before enrolling.
- 483-3 to 6. RESEARCH IN ANTHROPOLOGY. Guided research upon anthro-

- pological problems. Students should consult the department before enrolling.
- 485-3 to 6. **READING IN ANTHROPOLOGY.** Guided reading designed to cover special topics and to fill gaps in the student's basic anthropological background. Prerequisites: previous course work in anthropology and consent of department.
- 490-3. **THEORY AND METHOD IN ARCHAEOLOGY.** The conceptual schemes of archaeological research and the methods which implement them in practice.
- 491-5. **ARCHAEOLOGICAL FIELD METHODS.** The theory, methods, and techniques of field research in archaeology. Training and practice is offered in surveying, photography, field recording, and other basic skills required by the archaeologist.
- 495-3. **FIELD AND RESEARCH METHODS IN ETHNOLOGY.** Methods used in the field and in the analysis and presentation of research on living peoples. Organization, field situations, and documentary research will be stressed.
- 497-3 to 9. **FIELDWORK IN ANTHROPOLOGY.** Students should consult the department before enrolling.
- 500-3. **PRO-SEMINAR.** Anthropology as an academic and research discipline. A survey of the personnel and source materials of the profession, Professional standards, ethics, values, aims.
- 513-3. **HISTORICAL LINGUISTICS.** An introduction to the study of the processes of language change and linguistic techniques of reconstruction.
- 520-3. **ETHNOLOGY OF THE GREATER SOUTHWEST.** Problems pertaining to the cultures of arid America.
- 525-3. **MESO-AMERICAN CHRONICLES.** Comparative study of the pre-Spanish writings of the Indians of Meso-America.
- 526-3. **COLONIALISM AND NATIVE CULTURES IN LATIN AMERICA.** The impact of European conquest and dominance upon the native peoples and cultures in Latin America.
- 527-3. **NEGRO CULTURES OF THE CARIBBEAN.** Their origins and development and their relationships with the other cultures, Indian and European, of the Caribbean area.
- 529-3 to 9. **ETHNOLOGICAL CULTURES OF THE NEW WORLD.** Intensive study of selected areas and cultures. Students should consult the department before enrolling.
- 530-3. **ARCHAEOLOGY OF THE EASTERN UNITED STATES.** The prehistoric cultures east of the Rocky Mountains.
- 531-3. **ARCHAEOLOGY OF THE GREATER SOUTHWEST.** The prehistoric cultures of arid America.
- 533-3. **MEXICAN ARCHAEOLOGY.** The non-Maya cultures of prehistoric Mexico.
- 534-3. **MAYA ARCHAEOLOGY.** Prehistoric Maya cultures of southern Mexico and Central America.
- 539-3 to 9. **ARCHAEOLOGICAL CULTURES OF THE NEW WORLD.** Intensive study of selected areas and cultures. Students should consult the department before enrolling.
- 540-3. **ETHNOLOGY OF EUROPE.** Problems pertaining to the traditional and contemporary cultures of Europe. Population movements and the spread of ideas as background for the modern ethnic situation.

- 541-3. ETHNOLOGY OF RUSSIAN ASIA. Problems pertaining to the cultures of northern Asia.
- 543-3. ETHNOLOGY OF AFRICA. Problems pertaining to the cultures of Africa, with emphasis on negro Africa.
- 546-3. ETHNOLOGY OF SOUTHERN ASIA. Problems pertaining to the cultures of India, southeast Asia, and Indonesia.
- 547-3. ETHNOLOGY OF OCEANIA. Problems pertaining to the cultures of Australia and the Pacific Islands: Melanesia, Micronesia, and Polynesia.
- 549-3 to 9. ETHNOLOGICAL CULTURES OF THE OLD WORLD. Intensive study of selected areas and cultures. Students should consult the department before enrolling.
- 559-3 to 9. ARCHAEOLOGICAL CULTURES OF THE OLD WORLD. Intensive study of selected areas and cultures. Students should consult the department before enrolling.
- 562-3. PEASANT CULTURES. The theory of "peasant society" and comparative analysis of particular communities so classified.
- 565-3. BUILDING OF CULTURES. The factors involved in the growth, change, and breakdown of cultural patterns. Theories of innovation and culture change.
- 570-3. TECHNOLOGY IN CULTURE. Intensive study of the locus and function of technologies in culture as exemplified in selected areas in Oceania, Africa, North America, and elsewhere.
- 575-3. CULTURAL THEMES AND VALUES. Comparative study of systems of beliefs, interests, goals which influence and guide the individual's participation in his own and other cultures.
- 580-3. CULTURE-HISTORY AND CULTURE-ECOLOGY OF NORTHERN MEXICO. A joint faculty-student seminar designed to attack problems arising from Departmental field-work in central and northern Mexico and the American Southwest.
- 581-3 to 9. GRADUATE SEMINAR IN ANTHROPOLOGY. Students should consult the department before enrolling.
- 582-3 to 9. ADVANCED PROBLEMS IN ARCHAEOLOGY. Guided research upon archaeological problems. Students should consult the department before enrolling.
- 584-3 to 9. ADVANCED PROBLEMS IN CULTURAL ANTHROPOLOGY. Guided research upon problems of ethnology, social anthropology, and linguistics. Students should consult the department before enrolling.
- 585-3 to 9. ADVANCED READING IN ANTHROPOLOGY. Guided reading designed to cover special topics and to fill gaps in the student's specialized anthropological background.
- 597-3 to 9. GRADUATE FIELDWORK IN ANTHROPOLOGY. Students should consult the department before enrolling.
- 599-3 to 9. THESIS.
- 600-3 to 48. DISSERTATION.

ART

STUDIO

- 401-2 to 12. RESEARCH IN PAINTING.

- 406-2 to 12. STUDIO IN PAINTING.
- 410-2 to 12. RESEARCH IN PRINTS.
- 416-2 to 12. STUDIO IN PRINTS.
- 420-2 to 12. RESEARCH IN POTTERY.
- 426-2 to 12. STUDIO IN POTTERY.
- 430-2 to 12. RESEARCH IN METAL CONSTRUCTION.
- 436-2 to 12. STUDIO IN METAL CONSTRUCTION.
- 440-2 to 12. RESEARCH IN WEAVING.
- 446-2 to 12. STUDIO IN WEAVING.
- 501-2 to 12. SEMINAR IN PAINTING.
- 506-2 to 12. RESEARCH IN PAINTING.
- 511-2 to 12. SEMINAR IN PRINTS.
- 516-2 to 12. RESEARCH IN PRINTS.
- 520-2 to 12. SEMINAR IN POTTERY.
- 526-2 to 12. RESEARCH IN POTTERY.
- 530-2 to 12. SEMINAR IN METAL CONSTRUCTION.
- 536-2 to 12. RESEARCH IN METAL CONSTRUCTION.
- 540-2 to 12. SEMINAR IN WEAVING.
- 546-2 to 12. RESEARCH IN WEAVING.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

ART EDUCATION

- 460-2 to 12. RESEARCH IN ART EDUCATION.
- 466-2 to 12. STUDIO IN ART EDUCATION.
- 560-2 to 12. SEMINAR IN ART EDUCATION.
- 566-2 to 12. RESEARCH IN ART EDUCATION.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

ART HISTORY AND ART APPRECIATION

- 444-3. ART OF THE TWENTIETH CENTURY. The principal movements and styles of twentieth-century art with special emphasis upon change in modern society.
- 449-3. RENAISSANCE ART. Fifteenth- and sixteen-century European art with consideration of the significance of Renaissance art to the growth of Humanism.
- 471-3. BAROQUE PAINTING IN ITALY. Major developments in style and expression in Italian painting from the late Mannerist period until the early eighteenth century.
- 473-3. ROMANTIC ART OF THE 19TH CENTURY. A study of the sources and characteristics of Romantic art, approached through the works of such masters as Gros, Delacroix, Blake, Friedrich, Goya, and certain Americans.
- 475-3. IMPRESSIONIST AND POST-IMPRESSIONIST PAINTING. The late nineteenth century in France: Impressionism, Neo-Impressionism, Pointillism, and early Expressionism. The styles of Manet, Monet, Degas, Renior, Seurat, Van Gogh, and Cezanne receive emphasis.
- 482-3 to 9. ART HISTORY SEMINAR. Lectures, readings, and reports on artists,

styles, subjects of special interest which will be announced periodically by the art department.

483-3 to 12. RESEARCH IN ART HISTORY. Individual research in the painting, sculpture, architecture, and related arts of the various periods.

571-2 to 5. READINGS IN ART HISTORY.

573-3 to 12. PROBLEMS IN ART HISTORY. A detailed study of single works of stylistic problems in selected areas of world art.

BOTANY

404-5. THE ALGAE. Structure, development, and relationships of the algae. Laboratory and some field work. Prerequisites: 101 or 102, 202.

405-5. MYCOLOGY. Structure, development, and relationships of fungi. Problems of economic and scientific interest stressed. Laboratory. Prerequisites: 101 or 102, 202.

411-5. THE BRYOPHYTES AND PTERIDOPHYTES. Structure, development, and relationships of the liverworts and mosses, and the ferns and fern allies. Laboratory. Prerequisites: 101 or 102, 202.

412-5. THE SPERMATOPHYTES. Structure, development, and relationships of the gymnosperms and angiosperms. Laboratory. Prerequisites: 101 or 102, 202, 203.

425-5. ADVANCED PLANT PHYSIOLOGY I. Water relations, mineral nutrients, and colloidal phenomena in plants. Laboratory. Prerequisites: 101 or 102, 202, 310, 320. Desirable antecedents: year of chemistry, some physics.

426A-3. BIOCHEMISTRY AND PHYSIOLOGY OF MICROORGANISMS. (Same as Microbiology 425.) 3 hours lecture. Prerequisites: Microbiology 201 and organic chemistry.

426B-2. BIOCHEMISTRY AND PHYSIOLOGY OF MICROORGANISMS. (Same as Microbiology 426.) 4 hours laboratory.

427-4. MINERAL NUTRITION OF PLANTS. Covers the absorption, translocation, function, and interaction of inorganic nutrient elements in green plants with application to forest, agronomic, and horticultural species. Prerequisite: 320.

428-3. PLANT NUTRITION. The role and function of organic compounds in plants. Physiological importance of carbon-, nitrogen-, and phosphorus-containing compounds is stressed. Prerequisite: 320.

430-5. ADVANCED PLANT PHYSIOLOGY II. Photosynthesis, plant pigments, plant foods, enzymes, respiration, growth, and movement. Laboratory. Prerequisites: 101 or 102, 202, 310, 320. Desirable antecedents: year of chemistry, some physics.

440-4. ECOLOGY OF GRASSES AND GRASSLANDS. Structure, analysis and dynamics of grassland communities; structure and growth of individual species. Field and laboratory work cost about \$5. Prerequisite: 340 or consent of instructor.

450-3. PLANT GEOGRAPHY. A world survey of natural areas of vegetation. Evolution of floras and present distribution. Prerequisites: 101 or 102, 202, 203, or consent of instructor.

- 451-5. INTRODUCTION TO FLORISTICS. Principles involved and methods used in the analysis of the flora of an area. Laboratory and field work. Prerequisite: 203 or consent of instructor.
- 455-4. MEDICAL MYCOLOGY. Fungi which are responsible for infection of man and animals. Problems of classification, identification, isolation, and activity of these fungi. Prerequisites: 405, Microbiology 100 or consent of instructor.
- 457-4. FOREST PATHOLOGY. Nature and control of forest and shade tree diseases. A study of tree diseases in forests, parks, streets, and nurseries. Fungi important in decay and stain of timber and its products are included. Prerequisite: 355 or consent of instructor.
- 470-4. METHODS IN BIOLOGY. Methods, objectives, types of courses taught in secondary school biology. Laboratory and field trips. Prerequisite: major in botany or zoology.
- 480-4. CLASSIC PRINCIPLES OF BOTANY. Theories, principles, and developments in the various divisions of the plant sciences. Prerequisites: 101 or 102 or consent of instructor.
- 501-4. PLANT BIOLOGY FOR HIGH SCHOOL TEACHERS. Field work is required. The principles of plant biology are illustrated in the field. Emphasis is placed on the relation of the plant to the environment. Two lectures and two laboratories per week. Open to all graduate students. Prerequisite: one year of biological science.
- 502-2. RECENT DEVELOPMENTS IN BIOLOGICAL SCIENCES. (Same as Zoology 502.) A series of lectures based upon recent research, designed to acquaint the teacher with advances and changes in concepts. Prerequisite: one year of biological science.
- 503-5. ANGIOSPERM TAXONOMY I. Systematic treatment of all families of the monocotyledoneae. Prerequisite: 203.
- 504-5. ANGIOSPERM TAXONOMY II. Systematic treatment of all families of Dicotyledoneae. Prerequisite: 503.
- 505-3. ADVANCED FIELD TAXONOMY. An advanced field course designed to teach the families and genera of plants in southern Illinois. Emphasis on principles of taxonomy and methods of collection and preservation. Saturday field trips. Prerequisite: consent of NSF institute director.
- 520-5. PHYSIOLOGY OF THE FUNGI. Environmental and nutritional factors involved in the growth, reproduction, and metabolism of the fungi. Prerequisite: consent of the department.
522. ADVANCED HISTOLOGICAL TECHNIQUE. Preparation and presentation of research materials. Laboratory work only. Prerequisite: consent of department. Credit on work completed.
- 525-5. CYTOLOGY. Microscopical study of cellular constituents and of nuclear divisions: Structure and function of the hereditary material. Laboratory. Prerequisite: consent of department.
- 526-5. CYTOGENETICS. Correlation of cytology with genetics. Cell mechanics and nuclear division. Mitosis, meiosis, crossing over and mapping of chromosomes. Mutation, mitotic agents, effect of irradiation, polyploidy, structural aberrations, polytone chromosomes. Synthesis of new species, comparative karyomorphology. Evolution and cytogenetics. Prerequisite: 525 or consent of instructor.
- 533-3 to 4. GROWTH AND DEVELOPMENT IN PLANTS. External and in-

- ternal factors as they affect development and growth of plants, photoperiodism, and the role of growth-promoting substances. 1 hour to be arranged. Prerequisite: 320.
- 540-5. ECOLOGY OF FORESTS AND ARABLE LANDS. Studies in secondary succession. Field trips cost not more than \$10. Prerequisite: 340 or equivalent.
- 542-3. GENECOLOGY AND COMMUNITY CONCEPTS. Implications of findings on the nature of plant adaptation to environment. Genecology and physiological ecology viewpoints, considered at the species and community levels. Prerequisites: 203, 315, 320, 340, or consent of instructor.
- 543-5. EXPERIMENTAL ECOLOGY. Experiments on plant response to environmental factors. Design of experiments, statistical methods, presentation of individual research findings. Laboratory. Prerequisites: 320, 340 or consent of instructor.
- 551-4. THE NATURAL VEGETATION OF THE CENTRAL MISSISSIPPI BASIN, UPLAND. Floristic studies of the uplands vegetation which occurs in the central basin of the Mississippi River. Prerequisite: 451 or consent of instructor.
- 552-4. THE NATURAL VEGETATION OF THE CENTRAL MISSISSIPPI BASIN, AQUATIC. An analysis of the aquatic vegetation of the Central Mississippi basin, discussing importance to wildlife. Prerequisite: 203.
- 555-4. ADVANCED PLANT PATHOLOGY I. Diseases of field crops, horticultural crops, and trees incited by Physomycetes and Fungi Imperfecti. Individual problems assigned. Prerequisite: 355 or consent of instructor.
- 556-4. ADVANCED PLANT PATHOLOGY II. Diseases of field crops, horticultural crops, and trees incited by Ascomycetes and Basidiomycetes. Individual problems assigned. Prerequisite: 355 or consent of instructor.
- 557-4. ADVANCED PLANT PATHOLOGY III. Diseases of field crops, horticultural crops, and trees incited by bacteria and viruses. Individual problems assigned. Prerequisite: 355 or consent of instructor.
- 570-2 to 5. READINGS.
- 580-1 to 4. SEMINAR. To be taken by all graduate students.
- 590-2 to 4. INTRODUCTION TO RESEARCH. Methods of presentation of research materials, including written reports, graphs, photographs, bibliographies.
- 591-3 to 9. RESEARCH. Assignments involving research and individual problems. Prerequisite: consent of department. Students to register for not more than 3 quarters.
- 599-3 to 9. THESIS. Work involved in the research for and presentation of a thesis. Not more than 9 hours nor fewer than 5 hours will be allowed on thesis work. Student advised to take no more than 3 hours per quarter. Total hours in 591 and 599 cannot exceed 15 hours to be applied to the master's degree.
- 600-3 to 48. DISSERTATION. Minimum of 36 hours to be earned for the Ph.D. degree.

CHEMISTRY

- 401-3 to 5. GENERAL AND INORGANIC CHEMISTRY—REFRESHER. Pre-

requisite: one year of college chemistry or equivalent. Not to be counted toward chemistry major or minor.

- 403-3 to 5. ANALYTICAL CHEMISTRY—REFRESHER. A condensed introduction to or review of analytical chemistry. Aspects of both qualitative and quantitative analysis. 3 lectures and 2 optional laboratory periods per week. Prerequisite: one year of college chemistry.
- 404-3 to 5. ORGANIC CHEMISTRY—REFRESHER. Prerequisite: one year of college chemistry or equivalent. Not to be counted toward chemistry major or minor.
- 411-3. INTERMEDIATE INORGANIC CHEMISTRY. Modern inorganic chemistry involving atomic structure, chemical bonds, complexes, and chelate structures; chemistry of familiar and less familiar elements. 3 lecture hours per week. Prerequisites: 235 or 331, 306 or 343.
- 412-3. INORGANIC PREPARATIONS. A study of several important inorganic syntheses. 1 lecture and 6 laboratory hours per week. Prerequisites: 235 or 331, 306 or 343.
- 432-4. INSTRUMENTAL ANALYTICAL TECHNIQUES. Theory and practice of common instrumental analytical measurements. 2 lecture and 6 laboratory hours per week. Prerequisites: 235 or 331, 306 or 343, and one year of physics.
- 433-4. INTERMEDIATE QUANTITATIVE ANALYSIS. A comprehensive study of complex methods of analysis, with emphasis on separations. 2 lecture and 6 laboratory hours per week. Prerequisite: 460 or 462.
- 444-3. ORGANIC REACTIONS. An intermediate course with emphasis on monofunctional compounds. Additional topics, not included in elementary courses, will be considered. Three lecture hours per week. Prerequisite: 343.
- 446-4. QUALITATIVE ORGANIC ANALYSIS. A systematic study of the separation and identification of organic compounds by a procedure based on solubility and classification reagents. 2 lecture and 6 laboratory hours per week. Prerequisite: 306 or 343.
- 447-3. QUANTITATIVE ORGANIC CHEMISTRY. The determination of functional groups and elements commonly found in organic compounds by selected methods of analysis; illustration of general method of procedure in the field of quantitative organic chemistry. 1 lecture and 6 laboratory hours per week. Prerequisite: 306 or 343.
- 451-4. BIOCHEMISTRY. Carbohydrates, fats and related substances, proteins and amino acids, enzymes, digestion, absorption, and detoxication. 3 lecture and 3 laboratory hours per week. Prerequisite: 460 or 462.
- 452-4. BIOCHEMISTRY. The blood and lymph; acid-base regulation; metabolism of carbohydrates, lipids, and proteins; urine; calorimetry and energy metabolism; nutrition and vitamins; and hormones. Analysis of blood and urine. 3 lecture and 3 laboratory hours per week. Prerequisite: 451.
- 460-5. THEORETICAL CHEMISTRY. A one-quarter course on the traditional aspects of physical chemistry without the requirement of calculus. 3 lecture and 6 laboratory hours per week. Prerequisites: 235 or 331, 306 or 343, and one year of physics or consent of instructor.
- 461-4. PHYSICAL CHEMISTRY. Gases, liquids, solids, solutions, homogeneous and heterogeneous equilibria. 3 lecture and 3 laboratory hours per week. Prerequisites: 331 (concurrent), 343, twelve hours of physics, and one year of calculus.

- 462-4. PHYSICAL CHEMISTRY. A continuation of 461, including chemical kinetics, electrical conductance, electromotive force, and electrolytic equilibrium. 3 lecture and 3 laboratory hours per week. Prerequisite: 461.
- 463-4. PHYSICAL CHEMISTRY. A continuation of 462, including chemical thermodynamics, the quantum theory, nuclear structure, photochemistry, atomic and molecular structure. 3 lecture and 3 laboratory hours per week. Prerequisite: 462.
- 471-3. INDUSTRIAL CHEMISTRY. A survey course on modern industrial chemistry and an introduction to chemical research processes. 3 lecture hours per week. Prerequisite: 306 or 343.
- 476-3. SPECIAL METHODS IN TEACHING CHEMISTRY. To help the teacher improve his presentation of chemistry, particularly the use of the year-long filmed chemistry series. Prerequisite: 1 year of public school chemistry teaching.
- 490-2. CHEMICAL LITERATURE. A description of the various sources of chemical information and the techniques for carrying out literature searches. 2 lecture hours per week. Prerequisites: 235 or 331, 306 or 343, reading knowledge of German or consent of instructor.
- 496-2 to 6. CHEMICAL PROBLEMS. Investigation of relatively simple problems under the direction of a staff member. Prerequisites: senior standing, major in chemistry with 4.0 average, and consent of department.
- 511-3. ADVANCED INORGANIC CHEMISTRY. A theoretical and empirical treatment of chemical bonding and molecular structure. Lecture. Prerequisite: 460 or 461 (concurrent).
- 512-3. ADVANCED INORGANIC CHEMISTRY. A systematic consideration of the chemistry of the elements, including special topics such as non-aqueous solvent systems, and inorganic stereochemistry. Lecture. Prerequisite: 511.
- 513-3. ADVANCED INORGANIC CHEMISTRY. A continuation and extension of 512. Lecture. Prerequisite: 512.
- 531-3. THEORY OF QUANTITATIVE ANALYSIS. The phenomena utilized in analytical chemistry, with emphasis on separation, organic reagents, and complex methods. Lecture. Prerequisite: 433 or equivalent.
- 532-2 or 3. INSTRUMENTAL METHODS OF ANALYSIS. Theory and practice of instrumental measurements in analysis with emphasis on commercial samples and applications to research. Lecture and laboratory. Prerequisites: 432, 460 or 462 (concurrent).
- 533-3. INDUSTRIAL ANALYTICAL METHODS. Theory of analytical procedures and techniques, current industrial applications. Lecture. Prerequisite: 532.
- 541-3. ADVANCED ORGANIC CHEMISTRY. Theoretical organic chemistry with emphasis on stereochemistry, electronic theory, reaction mechanisms, and the application of physical methods to organic chemistry. Lecture. Prerequisite: 444 or satisfactory diagnostic test.
- 542-3. ADVANCED ORGANIC CHEMISTRY. Application of modern theory to synthesis and reactions of organic compounds, with emphasis on polyfunctional compounds. Lecture. Prerequisite: 541.
- 543-3. ADVANCED ORGANIC CHEMISTRY. Selected topics in organic chemistry such as heterocyclic compounds, steroids, carbohydrates, or polymers. Lecture. Prerequisite: 542.

- 551-3, 552-3, 553-3. **ADVANCED BIOCHEMISTRY.**
- 561-3. **CHEMICAL THERMODYNAMICS.** Basic methods and theories as applied to chemical problems. Lecture. Prerequisites: 463 and satisfactory diagnostic test.
- 562-3. **ATOMIC AND MOLECULAR STRUCTURE.** A survey of basic principles in atomic spectroscopy, quantum chemistry, and statistical thermodynamics. Lecture. Prerequisite: 561.
- 563-3. **CHEMICAL KINETICS.** Factors determining the rates of chemical reactions. Lecture. Prerequisite: 562.
- 575-1 to 3. **GRADUATE SEMINAR.** Advanced level talks presented and discussed by graduate students. Required for all graduate students.
- 576-3. **GENERAL SEMINAR FOR TEACHING CHEMISTRY.** Includes recent advances in chemistry, technology, and current problems in science education. Prerequisite: 1 year of public school chemistry teaching.
- 596-3 to 9. **ADVANCED CHEMICAL PROBLEMS.** Independent study and investigation in selected advanced fields under the supervision of a staff member. Prerequisite: consent of department chairman.
- 599-3 to 15. **RESEARCH AND THESIS.** Research in the several fields of chemistry. Prerequisite: consent of department chairman. Minimum of 5 hours to be counted toward a Master's degree.

CLOTHING AND TEXTILES

- 461-4. **PROBLEMS IN FITTING AND PATTERN ALTERATIONS.** Principles of fitting and pattern alterations as related to various figure types and special figure problems. Application made by fitting and constructing a dress. Prerequisites: 127, 233, or equivalent.
- 473-4. **ADVANCED TAILORING.** The student will tailor one garment for herself. Time-saving methods, high-quality construction details, and professional finishes stressed. Prerequisite: 360 or equivalent. Offered on demand.
- 474-4. **ADVANCED TEXTILES.** The physical and chemical analysis of textiles. Problems dealing with standards, labeling, and legislation. Current literature of developments with the field. Offered on demand.
- 481-2 to 6. **READINGS.** Supervised readings for qualified students. Prerequisite: consent of instructor and chairman of department.
- 570-4. **CLOTHING AND TEXTILES SEMINAR.** Selected problems within the field of clothing and textiles. Offered on demand.
- 571-4. **RECENT RESEARCH.** Review of selected research in various phases of home economics in related fields. Sources of research include colleges universities, and governmental and industrial agencies. Offered on demand.
- 572-2 to 8. **SPECIAL PROBLEMS.** For students recommended by their chairman and approved by the head of the department and the instructor in charge for independent work or directed study.
- 582-4. **FOUNDATIONS OF FASHION.** Anthropological approaches to fashion and socio-economic and psychological forces as determinants of fashion in modern times. Prerequisites: 329, 339 or consent of instructor.
- 589-8. **FASHIONS AND TEXTILES OF WESTERN EUROPE.** Study of the

fashion and textile industries in western Europe; their history and present social, economic, and cultural significance. Field trip to western Europe.

599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.
600-3 to 48. DISSERTATION. Minimum of 36 hours to be earned for the Ph.D. degree.

DESIGN

- 400-3 to 9. MATERIALS AND BASIC TECHNIQUES. Same as 200 and 300.
- 465F-5 to 15. RESEARCH IN PRODUCT-SHELTER DESIGN. Three-quarter sequence. Problems dealing with large groups. All problems carried from conception to actual full-scale construction. Development of prototype for mass-production techniques. Small research projects will be developed under grants given to the department. Prerequisite: 12 hours of 366 or its equivalent.
- 465G-5 to 15. RESEARCH IN VISUAL DESIGN. Three-quarter sequence. Problems dealing with room-to-eye scale and larger, i.e., posters, car cards, strip film, film, exhibitions, etc. Advanced graphic and photographic technology. Development of prototypes for mass-production techniques. Small research projects will be developed under grants given to the department. Prerequisite: 12 hours of 375 or its equivalent.
- 490F-2 to 12. SEMINAR IN PRODUCT-SHELTER DESIGN. Special seminars developed with visiting professors. Prerequisite: 12 hours of 366 or its equivalent.
- 490G-2 to 12. SEMINAR IN VISUAL DESIGN. Special seminars developed with visiting professors. Prerequisite: 10 hours of 375 or its equivalent.
- 500F-2 to 12. STUDIO IN PRODUCT-SHELTER DESIGN. The development of one problem given individually in preparation for the student's thesis. Prerequisite: 10 hours of 465F.
- 500G-2 to 12. STUDIO IN VISUAL DESIGN. The development of one problem given individually in preparation for the student's thesis. Prerequisite: 10 hours of 465G.
- 510F-2 to 12. RESEARCH IN PRODUCT-SHELTER DESIGN. The development of research projects with direct supervision by the staff. Prerequisite: 10 hours of 465F.
- 510G-2 to 12. RESEARCH IN VISUAL DESIGN. The development of research projects, supervised by the staff. Prerequisite: 10 hours of 465G.
- 550-2 to 16. FIELD STUDY IN DESIGN. Design activity (local, national, or international) carried out with a designated faculty member as liaison. Written report assigned and final report required. All projects must first have written approval by the chairman and the liaison faculty member.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

ECONOMICS

- 411-4. COLLECTIVE BARGAINING AND DISPUTE SETTLEMENT. Nature,

- issues, procedures, economic effects. Analysis of actual collective bargaining situations. Prerequisite: 310 or consent of instructor.
- 416-4. MONEY AND BANKING II. Emphasis upon the Federal Reserve and other banking systems. Prerequisite: 315 or consent of instructor.
- 418-4. ECONOMIC HISTORY OF EUROPE. A survey of the economic growth of Europe with emphasis upon the development of European agriculture, industry, finance, and international trade since 1750. Prerequisites: 205 and 206, or consent of instructor.
- 419-4. LATIN AMERICAN ECONOMIC DEVELOPMENT. A survey of the resource base of Latin American economic development with special reference to the problems of transition from an export-import to an integrated industrial economy; monetary policies; problems of economic planning. Prerequisites: 205, 315.
- 429-4. INTERNATIONAL ECONOMICS II. Intensive treatment of the principles of international economics with special emphasis on the classical and modern theories of international trade. Income effects. Balance of payments adjustments. Prerequisites: 205, 206; or consent of instructor.
- 432-3 to 4. FISCAL POLICY OF THE UNITED STATES. Countercyclical, secular, and emergency use of government expenditures, debt, and taxes. Prerequisites: 205 and 206, or consent of instructor.
- 436-3. GOVERNMENT AND LABOR. (Same as Government 436.) A study of labor relations and legislation considering both constitutional and economic aspects. Prerequisite: 205 or Government 101 or 231 or 300 or consent of instructor.
- 437-4. ECONOMICS OF SOCIAL SECURITY. The federal and state social security programs, including Social Security Act, Workmen's Compensation, Disability Insurance, Unemployment Compensation, with emphasis on their economic aspects. Prerequisites: 205 and 206, or consent of instructor.
- 440-4. INTERMEDIATE THEORY. A more intensive treatment of price and income theory. Prerequisites: 205 and 206, or consent of instructor.
- 445-2 to 8. SOUTH AMERICAN STUDY TOUR. See Foreign Languages 445 for course description.
- 450-3. HISTORY OF ECONOMIC THOUGHT. Great economists and the development of economic theory. Prerequisites: 205 and 206, or consent of instructor.
- 451-3. ECONOMIC THEORIES. Theories of recent leading economists. Prerequisite: 450 or consent of instructor.
- 460-4. RUSSIAN ECONOMY. Development of Russian trade, agriculture, industry, government, finance, and standards of living in successive periods in relation to the historical, geographic, economic, and ideological background. Prerequisite: 205 or consent of instructor.
- 465-4. MATHEMATICAL ECONOMICS. A systematic survey of mathematical economic theory. Conditions of static equilibrium (including stability conditions), dynamic models using difference equations, and linear production models of input-output analysis and activity analysis (linear programming). Prerequisite: 440 and consent of instructor.
- 470-3. BUSINESS CYCLES. Major business fluctuations in the United States. Prices, employment, production, credit, inflation and deflation, and government action during the cycles. Prerequisite: 315 or 440 or consent of instructor.

- 471-4. LAND RESOURCE ECONOMICS. (Same as Forestry 471 and Agricultural Industries 471.) The use of land as an economic variable in production of goods and services; land market; group versus individual conflicts; elementary land resources planning techniques. Field trip costs about \$5. Prerequisite: Economics 205.
- 481-3. COMPARATIVE ECONOMIC SYSTEMS. Capitalism, socialism, fascism, and other forms of the economy. Prerequisite: 205 or consent of instructor.
- 490-4. WORKSHOP IN ECONOMIC EDUCATION. (Same as Education 490.) Designed to assist elementary and secondary school teachers in promoting economic understanding in the minds of their students through the translation of economic principles and problems into classroom teaching materials.
- 500-4 to 8. ECONOMICS SEMINAR. A study of a common, general topic in the field of economics, with individual reports on special topics. Prerequisite: 205 or consent of instructor.
- 501-1 to 5. ECONOMICS READINGS. Contemporary books and periodicals in economics. Prerequisite: consent of chairman.
- 502-1 to 6. READINGS IN RESOURCE ECONOMICS. (Same as Forestry 520B and Agricultural Industries 520B.) Directed readings in the field of resource economics. Prerequisite: consent of instructor.
- 512-4. LABOR ECONOMICS. Economic principles involved in the employment relationship. Such topics as wage theory, the labor market, employment and unemployment, and the economic effect of collective bargaining are covered. Prerequisite: 310 or consent of instructor.
- 519-4. ECONOMIC GROWTH. Intensive examination of the problems (past and present) of economic development faced by nations everywhere. Attention to the alternative solutions which have been, or are being, attempted. Prerequisite: 317 or 418 or consent of instructor.
- 533-4. PUBLIC FINANCE THEORY AND PRACTICE. Historical development of public finance theories with analysis of their policy implications. Prerequisite: 330; or consent of instructor.
- 541-4. NATIONAL INCOME THEORY. Keynesian and post-Keynesian developments in national income theory. Empirical research concerned with characteristics and magnitudes of important national income concepts, such as the consumption function, is examined. Recent American policies and problems bearing on national income fluctuations are considered. Prerequisites: 205 and 206, or consent of instructor.
- 542-4. PRICE THEORY. Designed to develop skills in the use of the analytical tools, including the basic mathematical techniques, used in price theory. Prerequisite: 440 or consent of instructor.
- 561-4. COMPARATIVE ECONOMIC DEVELOPMENT IN ASIA. A comparison of the economies of Japan, India, and China within the framework of emerging economic theory of developing economies. Performance, goals, problems of self-sustaining growth, problems of resource allocation, and changes in the institutional framework in each case. Economic role of the United States in Asian development. Prerequisite: 205 or consent of instructor.
- 575-4. ECONOMIC REGULATION. An analysis of the economic causes and effects of the regulation of agriculture, business, and labor. Prerequisites: 330 and Management 473, or consent of instructor.

- 581-4. **ECONOMICS OF WELFARE.** The application of economic theory to the quest for economic welfare. Includes consideration of income distribution, rates of growth, the pricing system, and the role of government. Prerequisite: 440 or equivalent.
- 582-4. **ECONOMIC BEHAVIOR.** A theoretical and empirical study of the behavioral aspects of economics, including the behavior of firms, households, and government. This course draws upon the recent literature of economics and also, on frontier areas, upon directly relevant concepts and findings of related behavioral sciences. Prerequisite: 440 or equivalent or consent of instructor.
- 598A-1, 598B-1, 598C-1. **TEACHING COLLEGE ECONOMICS.** A seminar course on the graduate level devoted to the general and specific problems of teaching economics. Required of all graduate assistants who are given teaching assignments, and strongly recommended for other graduate students who contemplate teaching economics. Open to staff members.
- 599-2 to 9. **THESIS.** Minimum of 5 hours to be counted toward a master's degree.

EDUCATIONAL ADMINISTRATION AND SUPERVISION

- 411-4. **SEMINAR IN INSTRUCTION.** To assist student teachers and in-service teachers in solving classroom problems. Involves clinical study and discussion of behavioral and learning situations, with special attention to the development characteristics and needs of students.
- 420-4. **LEGAL BASIS OF AMERICAN EDUCATION.** Legal concepts governing education in the United States. Particular emphasis is placed on common-law principles.
- 424-4. **SCHOOL ADMINISTRATION.** Designed primarily for those who look forward to positions as supervisors, principals, or superintendents.
- 431-3. **HISTORY OF EDUCATION IN THE UNITED STATES.** An historical study of the problems of American education which have relevance to contemporary education.
- 432-4. **PUBLIC OPINION, PROPAGANDA, AND EDUCATION.** Analysis and classification of propaganda. Designed to show how public opinion is formed by a use of current materials from the different channels of communication. Differences between propaganda and indoctrination.
- 434-1 to 3. **ADMINISTRATOR'S WORKSHOP.** A special program for the consideration of administrative problems pertinent to superintendents, high school principals, and elementary school principals of Southern Illinois. Held during spring vacation week.
- 456-4. **SCHOOL SUPERVISION.** The function of the principal or supervisor in the improvement of instruction. Some activities, methods, and devices for improving the effectiveness of teaching.
- 460-4. **CURRICULUM.** Modern practices and procedures in curriculum development, with attention to the professional, social, economic, and other major factors in curriculum planning.
- 485-4 to 9. **WORKSHOP IN EDUCATIONAL UTILIZATION OF COMMUNITY RESOURCES.** (Same as Guidance 485.)

- 500-4. RESEARCH METHODS. Practical training in research and writing techniques in the field of education. Bibliographical materials, footnotes, use of the library. Recommended that students have had Guidance 420 or 422.
- 501-4. SEMINAR IN EDUCATIONAL ADMINISTRATION. Special study of administrative problems. For advanced graduate students.
- 502-4. SEMINAR IN COMPARATIVE EDUCATION. Educational ideas and practices of various countries of the world, both Eastern and Western, and their impact upon our culture and education.
- 503-4. SEMINAR IN PHILOSOPHY OF EDUCATION. An interpretation of modern educational problems and trends in the light of basic philosophical viewpoints. Excerpts from leading writings will be used.
- 504-4. SEMINAR IN HISTORY OF EUROPEAN EDUCATION. A survey and interpretation of education in Europe from the Greek era to the present. Stresses the relationship of European to American education.
- 506-4. SEMINAR: CURRICULUM IN RELATION TO AMERICAN CULTURE. The effect of historical movements on curriculum in our nation at all age and grade levels, continued on a more intensive basis as applied to present-day curricular patterns.
- 511-4, 512-4, 513-4. INTERNSHIP PRACTICUM. Courses of instruction relating to the study of theory and practical experience, both being carried on simultaneously in conjunction with a co-operating public school and the College of Education. Open only to students who have been admitted to the internship program.
- 520-4. ILLINOIS SCHOOL LAW. Study of the legal aspects of Illinois public education with principal emphasis on statutory law and its interpretation by the courts. Prerequisite: 420 or Government 499.
- 527-4 to 6. ADMINISTRATIVE PROBLEMS OF SMALL SCHOOLS. A field laboratory course for principals and superintendents, both elementary and secondary, focused upon specific problems presented by the students. Two days a week devoted to visiting schools in the area, and the remaining days spent in research and in seminar. Problems of plant construction and maintenance, budgeting, evaluation, curriculum, classroom organization, office practice, and administration. Specialists used as consultants when possible. Limited to administrators.
- 533-4. SCHOOL BUILDINGS. Various phases of physical plant design and maintenance of concern to the school administrator.
- 534-4. SCHOOL FINANCE. Fiscal administration of public education at the national, state, and local levels. Prerequisite: 424.
- 535-4. RESEARCH IN PROBLEMS OF ADMINISTRATION. An intensive four-week course for school principals on the theory and principles of administration for small schools, special administrative problems, school plant evaluation, curriculum revision, class scheduling, budgeting and school accounting, community relationships, supervision, pupil accounting, and evaluation of instructional services.
- 539-4. COMMUNITY DEVELOPMENT THROUGH THE SCHOOL. Comprehensive survey of the resources of a particular community; the cataloguing of material for use by the teachers of the community to help determine needed curriculum changes.
- 551-4, 552-4, 553-4. PHILOSOPHIC PROBLEMS OF CONTEMPORARY CIVILIZATION. An examination of the crisis in contemporary civiliza-

tion, the reconstruction of ideas and values involved, and an analysis of crucial problems in terms of their intellectual reconstruction. Cross-listed with Department of Philosophy.

- 554-4. CONTRASTING PHILOSOPHIES OF EDUCATION. Deals both historically and contemporaneously with the ideologies which have developed from different concepts of education.
- 555-4. PHILOSOPHICAL FOUNDATIONS OF EDUCATION. A course examining, in the primary sources, the basic concepts which have influenced and are influencing modern education. Not open to students who have had 355.
- 556-4. SEMINAR IN EDUCATIONAL SUPERVISION. Special research problems in supervision, for advanced graduate students. Prerequisite: 456.
- 563-4. WORKSHOP IN SCHOOL PUBLIC RELATIONS. To meet the needs of teachers, supervisors, and administrators in the area of public relations.
- 575A to K-2 to 4. INDIVIDUAL RESEARCH. Selection, investigation, and writing of a research topic under the personal supervision of a member of the departmental graduate faculty. By special arrangement.
- 589-2 to 12. GENERAL GRADUATE SEMINAR. (Same as Philosophy 589.)
- 596-5 to 9. INDEPENDENT INVESTIGATION. Field study required of each student working for the sixth-year professional certificate.
- 597-1 to 3, 598-1 to 3, 599-1 to 3. THESIS. Minimum of 5 hours to be counted toward a master's degree.
- 600-3 to 48. DISSERTATION. Minimum of 36 hours to be earned for the Ph.D. degree.

ELEMENTARY EDUCATION

- 401-2. PROBLEMS IN PUBLIC SCHOOL READING. Requirements: attendance at all sessions of a reading conference; preparation of a paper showing practical applications of theory to the student's own teaching situation. Summer.
- 402-4. AERO-SPACE EDUCATION WORKSHOP. (Same as Secondary Education 402.)
- 410-4. IMPROVEMENT OF INSTRUCTION IN ARITHMETIC IN KINDERGARTEN-PRIMARY GRADES. Recent findings and current practices in building a basis for quantitative thinking in early childhood education. Special emphasis upon grade placement of content and of techniques to aid children in understanding of the number system. Prerequisite: Mathematics 210.
- 411-4. SEMINAR IN INSTRUCTION. To assist student teachers and in-service teachers in solving classroom problems. Involves clinical study and discussion of behavioral and learning situations, with special attention to the development characteristics and needs of students.
- 415-2 to 4. IMPROVEMENT OF INSTRUCTION IN ARITHMETIC IN THE ELEMENTARY SCHOOL. Items to be taught, the grade placement of content, newer instructional practices and materials of instruction, and means of evaluating achievement. Prerequisite: Mathematics 210 or consent of instructor.
- 433-4. WORKSHOP IN ELEMENTARY EDUCATION. Meets needs of in-

- service teachers in such areas as curriculum adjustment, remedial teaching, child development, and early childhood education. No credit if student has had 333 or 390.
- 435-4 to 8. **WORKSHOP IN ELEMENTARY SCHOOL FOREIGN LANGUAGE INSTRUCTION.** Designed to assist elementary school teachers in integrating foreign languages into their teaching program as well as to encourage high school teachers to introduce or supervise foreign languages or education. Prerequisite: basic language credit.
- 437-4. **PROBLEMS IN READING.** Practices and trends in the teaching of reading; materials of instruction in reading, particularly remedial materials; techniques and materials for prevention of reading difficulties; diagnosis and remediation of reading difficulties. Prerequisites: senior standing, 337. Not open to students having had 505.
- 441-4. **TEACHING ELEMENTARY SCIENCE.** A workshop course for teachers of elementary school science.
- 442-4. **MATERIALS AND METHODS IN ELEMENTARY SCHOOL SCIENCE.** Study of content and methods of elementary school science.
- 443-4. **WORKSHOP IN SOCIAL STUDIES.** Material on critical areas of the world, not commonly emphasized in elementary social studies. Areas considered: significant geographical concepts, Asia, Africa, Russia, and Eastern Europe. Outstanding specialists in social science present their specialties.
- 461-4. **THE ELEMENTARY SCHOOL CURRICULUM.** A critical study of the reorganization, construction, and administration of the elementary school curriculum, and the installation, adaptation, and administration of the revised curriculum. Not open to students having had 561.
- 465-4. **SEMINAR IN PSYCHOLOGY OF ELEMENTARY SCHOOL SUBJECTS.** Psychological principles of learning applied to the mastery of materials used in elementary school subjects. Prerequisites: 314, Guidance 305.
- 505-4. **IMPROVEMENT OF READING INSTRUCTION.** First course in the reading sequence; survey of reading problems; aspects of the reading process; modern practices in teaching reading.
- 507-2 to 4. **READINGS IN READING.** Independent reading; acquaintanceship with the literature and research in reading. Conference periods.
- 509-4 to 8. **PRACTICUM IN READING.** For advanced students; teaching demonstrations and evaluations. Each student works with a group of reading disability cases.
- 510-4 to 8. **SEMINAR: PROBLEMS IN READING.** Major field content seminar: Problems and practices; comprehensive review and evaluation of research and literature. Each student pursues a problem of his own interest.
- 514-4. **ORGANIZATION AND ADMINISTRATION OF READING PROGRAMS.** For reading specialists, principals, supervisors, consultants. Recent trends in elementary and high school reading programs; providing reading instruction for total school population; materials and equipment; in-service training; role of the reading specialist. Problems of class members are studied and discussed. Prerequisite: 461.
- 515-4. **SPECIAL PROBLEMS IN THE TEACHING OF ARITHMETIC IN THE ELEMENTARY SCHOOL.** A seminar course which covers important problems in arithmetic in the elementary school. Variable content. Prerequisite: 415 or consent of instructor.

- 516-8 to 12. INTERNSHIP IN READING. Culminating experience for doctoral candidates. Each student supervises reading services in his own or co-operating school. Conference periods.
- 517-2 to 4. KINDERGARTEN-PRIMARY PRACTICUM. Practical applications of advanced theory in the Laboratory School. Readings and research related to special problems in the kindergarten-primary classroom. Prerequisite: 8 hours of student teaching.
- 518-2. SUPERVISION OF KINDERGARTEN-PRIMARY STUDENT TEACHING. The function of the supervisory teacher in the student teacher situation. Particular attention to the problem of student teaching in the public schools. A course for present and prospective teachers who wish to be more effective in dealing with student teachers.
- 521-3. DIAGNOSIS & CORRECTION OF READING DISABILITIES I. Causes of reading difficulties; observation and interview procedures; standardized tests, instruments, and informal inventories; analysis techniques; experiences in preparing materials for corrective purposes. Each student diagnoses and treats a reading disability case under supervision. Prerequisite: 505 or 540 or concurrent registration with 505.
- 522-3. DIAGNOSIS & CORRECTION OF READING DISABILITIES II. A continuation of 521. Prerequisite: 521.
- 523-3. DIAGNOSIS & CORRECTION OF READING DISABILITIES III. A continuation of 522. Prerequisite: 522.
- 525-4. SEMINAR IN KINDERGARTEN-PRIMARY EDUCATION. Exploration of research literature on problems in early childhood education. Each student to select problem or problems and to present paper to the seminar. Prerequisite: Educational Administration and Supervision 500 or equivalent.
- 537-4. KINDERGARTEN-PRIMARY READING. A survey of problems in the developmental reading program for the primary grades, followed by extensive study of selected problems. Prerequisite: 337 or consent of instructor.
- 541-4. SELECTED TEACHING AND CURRICULUM PROBLEMS IN ELEMENTARY SCHOOL SCIENCE. A course to help teachers with the problems of teaching science in the elementary school. Aims, methods, materials, and equipment. Emphasis placed upon grade placement of materials and the use of community resources.
- 542-4. LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. The practical bearing of investigation and theory on the improvement of current practices in the teaching of the language arts, other than reading. Attention given to evaluation of teaching materials in these areas.
- 543-4. TEACHING THE SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. Organization of material for teaching purposes, techniques of classroom presentation, bibliographies of materials, use of audio and visual aids to instruction, and techniques for evaluating student progress. Readings, lectures, and discussions related to required teaching experience. No credit for students having had 544.
- 544-4. SOCIAL STUDIES IN KINDERGARTEN-PRIMARY GRADES. Reading and research related to improving the child's understanding of his place in a group and his knowledge of his social world. No credit for students having had 543. Prerequisite: consent of instructor.
- 545-4. LANGUAGE IN PRESCHOOL AND PRIMARY GRADES. Review of

- research in the development of both oral and written language of children.
- 546-4. CURRICULUM PROBLEMS IN SCIENCE AT THE KINDERGARTEN-PRIMARY LEVEL. Designed to help teachers with the problems peculiar to the teaching of science in the kindergarten-primary grades.
- 557-4. THE ELEMENTARY PRINCIPALSHIP. Designed to meet many of the particular needs of persons interested in qualifying for appointments as elementary school principals. Other than the administrative responsibilities of the elementary principal, such topics as the grouping of pupils, the elementary school's program, and personnel are studied.
- 560-4. KINDERGARTEN-PRIMARY EDUCATION. A survey of current problems and practices in early childhood education for children from four to eight years of age, with emphasis on wide reading in current research literature. Prerequisite: consent of instructor.
- 563-4. ORGANIZATION OF THE ELEMENTARY SCHOOL. An analysis of types of elementary school organization with special attention to influence of school organization upon the educational program. Application of research findings to selection and use of materials of instruction. Special consideration to student's professional problems.
- 575-2 to 4. INDIVIDUAL RESEARCH. The selection, investigation, and writing of a research topic, under the personal supervision of a member of the departmental graduate staff, in one of the following areas: A. Curriculum, B. Supervision, C. Language Arts, D. Science, E. Reading, F. Social Studies, G. Problems in Elementary Education, H. Arithmetic, J. Problems in Kindergarten-Primary, K. Elementary Education Administration and Supervision.
- 596-5 to 9. INDEPENDENT INVESTIGATION. Field study required of each student working for the sixth-year professional certificate. The work should be done in the setting of a school system where the student is employed or where full co-operation is extended. The study involves selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summarizations.
- 597-1 to 3, 598-1 to 3, 599-1 to 3. THESIS. Minimum of 5 hours to be counted toward a master's degree.
- 600-3 to 48. DISSERTATION. Minimum of 36 hours to be earned for the Ph.D. degree.

ENGLISH

- 400-4. INTRODUCTION TO ENGLISH LINGUISTICS. An analysis of English structure, its phonemics, morphemics, and syntax. Recommended for those preparing to teach English grammar and needing an introduction to the structural approach.
- 403-4. THE HISTORY OF THE ENGLISH LANGUAGE. A survey of the development of the language from Indo-European to modern English with special emphasis on Middle and Early Modern English changes.
- 404-4. CONTEMPORARIES AND SUCCESSORS OF CHAUCER. Late fourteenth and early fifteenth century English literature, from *Sir Gawayne and the Grene-Knight* to the Scottish Chaucerians.

- 412-4. SIXTEENTH CENTURY NON-DRAMATIC ENGLISH LITERATURE. A survey of representative selections from the verse and prose of the period, supplemented by intensive reading on special topics by individual students: the origins and growth of the new literature, its debt to the past and to contemporary European sources.
- 413-4. SEVENTEENTH CENTURY NON-DRAMATIC ENGLISH LITERATURE.
- 414-4. EIGHTEENTH CENTURY NON-DRAMATIC ENGLISH LITERATURE.
- 415-4. EARLY ROMANTICS. Major emphasis on general background and on Blake, Coleridge, and Wordsworth.
- 416-4. LATER ROMANTICS. Major emphasis on Byron, Shelley, and Keats; also the minor figures.
- 417-4. VICTORIAN LITERATURE. Ideas, forms, and personalities in English literature from 1830 to 1900.
- 421-4. VICTORIAN POETRY. Tennyson, Browning, Arnold, and other poets of England, 1830-1900.
- 422-4. MODERN BRITISH POETRY.
- 423-4. MODERN AMERICAN POETRY. A study of the important poets, beginning with Robinson.
- 431-4. AMERICAN LITERATURE I, to 1789.
- 432-4. AMERICAN LITERATURE II, to 1865.
- 433-4. AMERICAN LITERATURE III, to 1914.
- 438-4. INTELLECTUAL BACKGROUNDS OF AMERICAN LITERATURE. The relationship of basic ideas in America to American literature.
- 441-4. THE EIGHTEENTH CENTURY ESSAY. Stresses the informal essay. Studies the principal literary periodicals, *The Spectator*, *The Tatler*, *Guardian*, *Rambler*, *Idler*, and Goldsmith's *Citizen of the World* ("Chinese Letters").
- 443-4. VICTORIAN PROSE. The chief writers of non-fiction prose from the late Romantics to 1900.
- 447-4. AMERICAN HUMOR AND SATIRE. A consideration of the writers and forms of nineteenth and twentieth century humor.
- 454-4. EIGHTEENTH CENTURY NOVEL. Defoe through Jane Austen.
- 455-4. VICTORIAN NOVEL. Major novelists and principal tendencies in English fiction, 1830-1900.
- 456-4. CONTEMPORARY CONTINENTAL FICTION.
- 457-4. CONTEMPORARY BRITISH FICTION. Outstanding figures, influences, and trends in the British novel and short story since 1914.
- 458-4. AMERICAN NOVEL. The novel in America from its beginnings to the early twentieth century.
- 459-4. CONTEMPORARY AMERICAN FICTION. Trends and techniques in the American novel and short story since 1914.
- 460-4. RENAISSANCE DRAMA. Mostly concerned with the evolution of the "regular" drama from the mid 1550's to the closing of the theatres. Course involves extensive reading of plays and familiarity with the contemporary theatrical background.
- 461-4. RESTORATION AND EIGHTEENTH CENTURY DRAMA. A study of the British drama after the restoration of 1660; representative types of plays which appeared from Dryden to Sheridan.
- 463-4. MODERN BRITISH DRAMA.

- 464-4. MODERN CONTINENTAL DRAMA. A survey of the continental drama of Europe since 1870; representative plays of Scandinavia, Russia, Germany, France, Italy, Spain, and Portugal.
- 468-4. AMERICAN DRAMA. The rise of the theater in America, with reading of plays, chiefly modern.
- 470-4. CHAUCER.
- 471-4. SHAKESPEARE. The plays before 1600. Supplementary readings on the life of Shakespeare, the theater, and the acting company.
- 472-4. SHAKESPEARE. The plays of 1600 and later. Supplementary readings on the life of Shakespeare, the theater, and the acting company.
- 473-4. MILTON.
- 485-4. PROBLEMS IN THE TEACHING OF ENGLISH. Aims, methods, materials, tests, programs, and other aspects of English instruction in the high school.
- 486-2 to 8. WORKSHOP IN HIGH SCHOOL ENGLISH. Intensive workshop study in lectures, laboratory, conferences, to arrive at agreement on the teaching of English in high school. Curriculum, materials, methods, aims. Directed by authorities in the field.
- 487-2 to 8. WORKSHOP IN JUNIOR HIGH SCHOOL ENGLISH. Intensive workshop study in lectures, laboratory, conferences, to arrive at agreement on the teaching of English in junior high school. Curriculum, materials, methods, aims. Directed by authorities in the field.
- 492-4. PROFESSIONAL WRITING II. Prerequisites: 392 and/or approval of instructor.
- 493-4. PROFESSIONAL WRITING III. Prerequisites: 492 and approval of instructor.
- 495-4. HISTORY OF LITERARY CRITICISM. The ideas and techniques of criticism, from Aristotle to the end of the nineteenth century.
- 498-4. MODERN LITERARY CRITICISM. Recent critics and critical attitudes, and practice in writing criticism.
- 499-2 to 6. READINGS IN ENGLISH. For English majors only. Departmental approval required. No more than 4 hours may be taken in any one quarter.
- A prerequisite to each of the following courses (except 500, 501, 502, 585, 586, and 598) is a 300 or 400 course in the period or form represented by the offerings.
- 500-2. MATERIALS AND METHODS OF RESEARCH IN ENGLISH. The principal tools of literary scholarship and the more important studies and journals. Practice in the preparation of selective bibliographies and scholarly reports.
- 501-4. OLD ENGLISH GRAMMAR. The development of the forms; the grammar; and readings. Credit allowed only if the student also takes 502.
- 502-4. BEOWULF. Reading of the poem, and study of its form, language and history. Prerequisite: 501.
- 503-4 or 8. STUDIES IN LINGUISTICS. In alternate years (a) Phonetics and Phonemics, (b) Morphemics and Syntax.
- 508-4 or 8. STUDIES IN CHAUCER. Problems in Chaucer, scholarship and criticism.
- 509-4 or 8. STUDIES IN MIDDLE ENGLISH. At the discretion of the instructor: (a) Readings chiefly in Early Middle English with attention to the grammar and phonology of the dialects; (b) A study of Middle English

literature exclusive of Chaucer or of one or more literary types, the scholarship and criticism.

511-4 or 8. STUDIES IN THE RENAISSANCE. Individual research problems involving the use of primary source materials in extensive microfilm and microcard collections, etc.

513-4 or 8. STUDIES IN SEVENTEENTH CENTURY LITERATURE.

514-4 or 8. STUDIES IN RESTORATION AND EIGHTEENTH CENTURY LITERATURE.

518-4 or 8. STUDIES IN THE VICTORIAN PERIOD. Study of a topic, a movement, or an author.

519-4 or 8. STUDIES IN CONTEMPORARY BRITISH LITERATURE.

520-4 or 8. STUDIES IN ROMANTIC WRITERS.

524-4 or 8. STUDIES IN METAPHYSICAL POETS.

531-4 or 8. STUDIES IN AMERICAN COLONIAL PERIOD.

532-4 or 8. STUDIES IN AMERICAN TRANSCENDENTALISM.

534-4 or 8. STUDIES IN EARLY NINETEENTH CENTURY AMERICAN WRITERS.

536-4 or 8. STUDIES IN LATER NINETEENTH CENTURY AMERICAN WRITERS.

537-4 or 8. STUDIES IN TWENTIETH CENTURY AMERICAN WRITERS.

538-4 or 8. PROBLEMS IN AMERICAN LITERATURE. Study of a topic, concept, or idea as it appears in American writing.

543-4 or 8. STUDIES IN VICTORIAN NON-FICTION PROSE. Study of a topic or individual author.

555-4 or 8. STUDIES IN THE VICTORIAN NOVEL. Study of an individual author or of a type of novel.

566-4 or 8. STUDIES IN SHAKESPEARE. Detailed study of a limited number of the major plays: historical and technical problems considered in the light of recent scholarship in the field.

580-4. TRADITIONAL THEMES IN LITERATURE. Persistent themes and legends in literature—King Arthur, Faust, Utopia, and the like.

585-2 to 8. TEACHING COLLEGE COMPOSITION. Objectives, methods, and materials for the course; observation, and practice under supervision.

586-4 or 8. TEACHING COLLEGE LITERATURE. Chief emphasis on freshman and sophomore literature; objectives; methods; materials; observation; and practice under supervision.

598A-1 to 3, B-1 to 3, C-1 to 3. REVIEW OF ENGLISH AND AMERICAN LITERATURE. Review through reading, lecture, and discussion of the major texts in English and American literature. Grade in the course to be given upon completion of the master's comprehensive examination in English.

599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

600-3 to 48. DISSERTATION. Minimum of 36 hours to be earned for the Ph.D. degree.

FOOD AND NUTRITION

404-4. PERSONAL AND COMMUNITY NUTRITION. Normal nutrition with

- an emphasis on the role of nutrition in personal and community health, and the influence of various cultural patterns on nutritional status. Planned primarily for nonmajors; open to home economics majors with consent of instructor.
- 481-2 to 6. READINGS. Supervised readings for qualified students. Prerequisite: consent of instructor and chairman of department.
- 490-4. NUTRITION AND PHYSICAL GROWTH. Lectures, readings, discussions, and practical application of nutrition in relation to human growth through adolescence. Prerequisite: 320 or consent of instructor.
- 500-4. RESEARCH METHODS. Study of methods employed in research in food and nutrition. The development of a research design selected on the basis of the interest and need of the student. Field trips. Prerequisites: 359 or 356, Guidance 420 (420 may be concurrent), or consent of instructor.
- 515-1 to 6. SEMINAR. Staff and student participation in reports and discussion on assigned research papers, research in progress, or current professional meetings. Recommended for all graduate majors in food and nutrition. Prerequisite: consent of instructor.
- 556-4. ADVANCED EXPERIMENTAL FOOD. Experimental approach to the study of the chemical and physical properties of selected foods; laboratory investigation of a problem in food research and guided work in interpretation of research data. Field trips. Prerequisite: 356 or consent of instructor.
- 571-4. RECENT RESEARCH. Review of selected research in various phases of home economics in related fields. Sources of research include colleges universities, and governmental and industrial agencies. Offered on demand.
- 572-2 to 8. SPECIAL PROBLEMS. For students recommended by their chairman and approved by the head of the department and the instructor in charge for independent work or directed study.
- 580-4. RECENT DEVELOPMENTS IN NUTRITION. Critical study of recent scientific literature in nutrition. Prerequisite: 320 or equivalent.
- 581-4. RECENT TRENDS IN FOODS. An evaluation of recent literature on food preparation principles and the commercial development of prepared foods for home use. Prerequisite: 335. Offered on demand.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

FOREIGN LANGUAGES

FOREIGN LANGUAGES

- 435-4 to 8. WORKSHOP IN ELEMENTARY SCHOOL FOREIGN LANGUAGE INSTRUCTION. Designed to assist elementary school teachers in integrating foreign languages into their teaching program as well as to encourage high school teachers to introduce or supervise foreign languages at the elementary school level. To count as education or foreign languages. Prerequisite: basic language credit.
- 445-2 to 8. SOUTH AMERICAN STUDY TOUR. Study tour of various South American countries. Tour preceded by required reading, lectures, and examination. Lectures by professors of universities in countries visited on

topics of special interest in each country. Study of political, economic, social, historical, artistic, and geographic characteristics of these countries. Credit may be earned in foreign languages, or in a combination of departments, as determined by consultation with department chairmen and the Latin American Institute. Final week on campus for completion of papers and reports. Prerequisite: advanced standing in major department.

FRENCH

- 161-0. FRENCH FOR GRADUATE STUDENTS. To help graduate students prepare for proficiency examination in French for the Ph.D. degree. No previous study required.
- 440-2. FRENCH POETRY OF THE RENAISSANCE. Development of French poetry from 1550 to 1600.
- 500-2. SEMINAR IN CONTEMPORARY FRENCH LITERATURE. Intensive study of the "Roman fleuve" as exemplified in the works of Duhamel, Martin du Gard, and Romains.
- 501-2 to 6. SEMINAR ON A SELECTED FRENCH AUTHOR. Intensive study of one author—his life, his work, and his place in the literary and cultural developments of civilization. A. Balzac, B. Baudelaire, C. Moliere, D. Montaigne, E. Proust.
- 509-4. FRENCH LITERATURE FROM 1800 TO 1850. Romanticism in French literature and its relation to the general European Romantic movement.
- 510-4. FRENCH LITERATURE FROM 1850 TO 1900.
- 511-3. TWENTIETH-CENTURY FRENCH DRAMA. French drama from 1900 to the present.
- 520-4. GRADUATE COMPOSITION AND DICTION. Composition based on study of contemporary French authors; individual work in pronunciation and diction determined by entrance tests.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

GERMAN

- 161-0. GERMAN FOR GRADUATE STUDENTS. To help graduate students prepare for proficiency examination in German for the Ph.D. degree. No previous study required.
- 401-2. GOETHE'S FAUST, PART I. The Faust legend and early Faust books and plays; the genesis of Goethe's Faust; reading of Part I. Lectures, reports.
- 402-2. GOETHE'S FAUST, PART II. Reading of Part II; study of symbolisms, such as Part II's blending of paganism with Christianity, ancient Greek culture with Germanic culture, Helen's Classicism with Faust's Romanticism. Lectures, reports.
- 403-3. GERMAN BALLADS AND LYRICS. A selective study of the foremost examples of German balladry and lyric poetry, ranging from the poetry of Klopstock and Bürger to that of Rilke and Werfel. Lectures, recitations.
- 411-3. MIDDLE HIGH GERMAN I. Grammar and selective readings in such

- national epic poems of the Middle High German Period as the Nibelungen Lied and Gudrun. Lectures, reports.
- 412-3. MIDDLE HIGH GERMAN II. The courtly epic poetry of such representative authors as Wolfram von Eschenbach, Gottfried von Strausburg, Hartmann von Aue, and the lyric poetry of Walther von der Vogelweide. Lectures, reports.
- 500-2. SEMINAR IN CONTEMPORARY GERMAN LITERATURE. Intensive study of the works of representative German authors, with special reference to the correlation existing between literary expression and social, economic, and political conditions since 1900. Lectures, outside readings, reports.
- 501-2. SEMINAR ON A SELECTED GERMAN AUTHOR. Intensive study of one author—his life, his work, and his place in the literary and cultural development of civilization. Lectures, outside readings, reports.
- 511-3 to 9. THESIS OR RESEARCH IN GERMAN LITERATURE. For students who are writing a thesis or making an advanced graduate study of some phase of German literature. Lectures, compilation of bibliographies, other research techniques, papers. 2 to 4 hours each (maximum of 9 hours).
- 591-2 to 6. SEMINAR ON KANT. A selective study of the works of Immanuel Kant, with special emphasis on the influence exerted by Kantian philosophy on subsequent German literature. Course counted on a major in philosophy, subject to the consent of the Department of Philosophy. Lecture, outside readings, reports. 2 hours each.

SPANISH

- 415-3. SPANISH PHONETICS. Analysis of the sounds of Spanish and their manner of production; special drill in connected passages of prose and poetry.
- 478-4. SEMINAR IN LATIN AMERICAN THOUGHT. (Same as Philosophy 478.)
- 500-2. SEMINAR IN LATIN-AMERICAN LITERATURE. Intensive study of the modern novel in Latin America as an expression of social and cultural movements. Outside readings and class discussions.
- 501-2. SEMINAR ON A SELECTED SPANISH AUTHOR. Intensive study of one author—his life, his works, and his relationships to the literary and social currents of his time.
- 505-3. THE PICARESQUE NOVEL. Class study of the Lazarillo, and collateral readings of other masterpieces of this genre.
- 506-3. THE RENAISSANCE. A study of the literature of the Renaissance in Spain, including the drama, the novel, the lyric poetry, and the histories of the Indies.
- 520-4. COMPOSITION AND GRAMMAR. Free composition, based upon analysis of the style of contemporary Spanish authors, with special reference to grammatical construction. Special projects in grammar.
- 525-3. THE SPANISH BALLADS. The *romance* studied as a part of the literature and folklore of Spain and the New World.
- 530-3. LATIN-AMERICAN POETRY. Study of the modern trends in the poetry of Latin America as a whole, with emphasis on its international

aspect and its relation to other literary forms. Prerequisite: 333 or consent of instructor.

535-3. *ENSAYISTAS MEXICANOS DEL SIGLO DIECINUEVE*. Study and discussion of ideologies and conflict in thought as reflected in writings of Mexican essayists of the past century.

599-2 to 9. *THESIS*. Minimum of 5 hours to be counted toward a master's degree.

ROMANCE PHILOLOGY

410-4. *ROMANCE PHILOLOGY I*. A survey of the phonology, morphology, and syntax changes in Romance languages in general; special attention to the developments in French and Spanish for majors in these fields.

514-4. *ROMANCE PHILOLOGY II*. Studies in syntax of Old French and Old Spanish, with special problems in the field of the student's major interest.

515-4. *READINGS IN ROMANCE*. Selected readings in the literature of Old French and Old Spanish, with emphasis upon the student's major field. Prerequisite: 410 or equivalent.

516-4. *ARTHURIAN ROMANCE*. Intensive readings in the Arthurian Romances in the field of the student's major interest (French or Spanish) with reference to the genre as a whole. Prerequisite: 410 or equivalent.

FORESTRY

427-4. *MINERAL NUTRITION OF PLANTS*. (Same as Botany 427.)

440-4. *ECOLOGY OF GRASSES AND GRASSLANDS*. (Same as Botany 440.) Structure analysis and dynamics of grassland communities; structure and growth of individual species. Field and laboratory work costs about \$5. Prerequisite: Botany 340 or consent of instructor.

464-4. *ADVANCED SILVICULTURE*. Analysis and measurement of site quality; stand density; growth as related to site factors and competition; factors affecting reproduction; the tree as a variable. Prerequisites: 364, 365.

465-2 to 4. *FORESTRY FIELD STUDIES*. An extended trip to study forest conditions and silviculture in different forest regions of the United States. Cost shared by students. Prerequisites: 330, 363, 364, 365.

470-4. *ECONOMICS OF PRODUCTION AND MARKETING IN FORESTRY*. Introduction to forestry economics; micro-economics of forestry production and conservation; marketing and pricing of forest products. Prerequisite: Economics 205.

471-4. *LAND RESOURCE ECONOMICS*. (Same as Agricultural Industries 471 and Economics 471.) The use of land as an economic variable in production of goods and services; land markets; group versus individual conflicts; elementary land resources planning techniques. Field trip costs about \$5. Prerequisites: Economics 205, 206 or Forestry 470.

475-4. *MACRO-ECONOMICS AND PLANNING IN FORESTRY*. Study of forestry economy; introduction to public planning in forestry including consumption and production goals. Prerequisite: 470 or consent of instructor.

520A-1 to 6. *READINGS IN FORESTRY*. Directed readings in selected subjects.

- 520B-1 to 6. READINGS IN RESOURCE ECONOMICS. (Same as Agricultural Industries 520B and Economics 502.) Directed readings in the field of natural resource economics.
- 575-1 to 6. RESEARCH. Directed research in selected fields of forestry.
- 581-1 to 6. SEMINAR. Study and discussion of forestry problems.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

GEOGRAPHY

- 402-4. THE SOVIET UNION. A study of the U.S.S.R. based on both a systematic and a regional approach. Appraisal of the natural-resource base of Russia as well as an estimate of her industrial and agricultural strength. Prerequisite: 100 or consent of instructor.
- 404-4. GEOGRAPHY OF AGRICULTURE. A functional study of the bases, interrelationships, and geographic distribution of agricultural production. Prerequisites: 100, 101, 210, or consent of instructor.
- 405-4. GEOGRAPHY OF MANUFACTURING. A functional study of the bases, interrelationships, and geographic distribution of industries. Prerequisites: 100, 101, 210, or consent of instructor.
- 406-4. GEOGRAPHY OF TRANSPORTATION. The pattern of modern transport networks and trade routes; the importance of trade routes; the importance of trade and transportation as geographic factors. Prerequisites: 100, 101, 210, or consent of instructor.
- 407-4. REGIONAL CLIMATOLOGY. Principles of climatology; physical bases for the differentiation of climate types, description and interpretation of climatic regions. Prerequisite: 100 or consent of instructor.
- 411-4. URBAN GEOGRAPHY. The urban population: environment, development, and distribution; geographic factors related to the origin, structure, and functions of urban centers. Prerequisites: 100, 101, 210, or consent of instructor.
- 413-3 to 4. GEOGRAPHY OF THE CARIBBEAN LANDS. A regional approach to the study of the lands bordering the Caribbean. Appraisal of the natural-resource base of the various countries. Prerequisite: 100.
- 416-4. CARTOGRAPHY. Instruction and practice in the basic techniques of map-making; consideration and solution of problems involved in the construction of maps; problems in map reproduction. Prerequisite: 100 or consent of instructor.
- 417-3. AIR PHOTO INTERPRETATION. Techniques in the use of air photos as source material for research in the physical and social sciences. Laboratory. Prerequisite: 212 or consent of instructor.
- 420-4. GEOGRAPHY OF AFRICA. A regional approach to the study of the continent. Patterns of climate, soils, minerals, vegetation, and relative location to be woven together with the agricultural, economic, and industrial features into the regional framework of Africa. Prerequisite: 100 or consent of instructor.
- 421-4. RESOURCES FOR THE FUTURE.
- 424-4. REGIONAL PROBLEMS IN CONSERVATION. The distribution, use, and interrelationship of the resources in the various resource management regions of the United States, the conservation techniques applied to them,

and the problems of public policy in their effective management. Prerequisites: 100, 324, or equivalent courses.

- 430-4. **PHYSIOGRAPHIC PROVINCES OF NORTH AMERICA.** (Same as Geology 430.) Designed to give the students an appreciation of the evolution of land forms in the physiographic provinces of North America; to explain the surface features in a landscape; and to interpret the human drama related thereto. Prerequisites: 100, 101, 210, and advanced standing.
- 431-4. **GEOMORPHOLOGY.** (Same as Geology 431.)
- 435-4. **GEOGRAPHY OF LANDFORMS.** This course attempts to develop concepts of objective landform description. Using this approach the world distribution of landforms will be examined with special emphasis on the landforms of the United States. Prerequisite: 101 or consent of instructor.
- 436-3. **PLANT GEOGRAPHY.** (Same as Botany 450.)
- 440-2 to 4. **READINGS IN GEOGRAPHY.** Supervised readings in selected subjects. Prerequisites: 100, 101, 210, and advanced standing.
- 444-4. **POLITICAL GEOGRAPHY.** An examination of principles of political geography followed by an analysis of the world pattern of political organization by regions. Prerequisite: at least three courses in geography and completion of university social science requirements.
- 445-2 to 8. **SOUTH AMERICAN STUDY TOUR.** See Foreign Languages 445 for course descriptions.
- 450-3 to 15. **TRAVEL STUDY COURSES.** Designed chiefly for in-service teachers and for others whose work needs enrichment through travel. Prior to departure from campus, intensive supervised study and/or readings relative to areas or countries to be visited. Written report due within six weeks after completion of study in the field. Not open for credit to graduate students in geography. Prerequisite: 100 or equivalent.
- 455-4. **GEOGRAPHY OF POPULATION.** Study of the geographic significance of population numbers, characteristics, and change throughout the world and the relationships between population and economic resources. Emphasis on assessing possible causes and effects of population distribution. Study of data sources and techniques of measurement and mapping. Prerequisites: 13 hours of geography including 210 or consent of instructor.
- 460-2. **CURRENT GEOGRAPHICAL JOURNALS.** Designed to acquaint students with the leading journals in the field. Each student to report content of certain recent or current issues. Prerequisite: minimum of 14 hours of geography.
- 470-4. **URBAN PLANNING.** (Same as Government 470.) An interdepartmental course in the basic problems of planning in the urban community. The course includes the administrative and physical principles involved in the planning of urban land use. Emphasis is upon research techniques, design principles, and governmental instrumentalities in the planning process. Prerequisite: consent of instructor.
- 485-4. **WORKSHOP IN THE GEOGRAPHY OF LATIN AMERICA.** For in-service geography and social studies teachers in elementary and junior high, to provide understanding of and identification with Latin American environment and culture. Prerequisite: 100. Not open to students who have had 316 or 413.
- 500-4. **GEOGRAPHIC TECHNIQUES I.** Field experience in the techniques of

- observation, mapping, interview, and analysis as applied in geography. One day a week spent in the field near Carbondale.
- 501-4. GEOGRAPHIC TECHNIQUES II. Introduction to and appraisal of library sources and bibliographical aids. Thesis organization, form, and investigational procedures. Individual projects and reports.
- 511-4. PHILOSOPHY OF GEOGRAPHY. The nature of geography. Current trends in the field, present-day geographers, and schools of thought. Geography's place among the disciplines.
- 521-2 to 4. SEMINAR IN ECONOMIC GEOGRAPHY.
- 522-2 to 12. SEMINAR IN REGIONAL GEOGRAPHY.
- 523-4. SEMINAR IN CARTOGRAPHY.
- 524-2 to 8. SEMINAR IN CULTURAL GEOGRAPHY.
- 530-2 to 10. INDEPENDENT STUDIES IN GEOGRAPHY.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

GEOLOGY

- 401-4. ADVANCED GENERAL GEOLOGY. Deals with certain broader problems of geology; earthquakes, volcanism, submarine canyons, coral islands, mountain building. Laboratory. Prerequisites: 220, 302.
- 405-3. MAP AND AIR PHOTOS. Interpretation and use of air photos in geologic mapping; interpretation and construction of geologic maps, such as areal, structure, isopach, paleogeologic. Laboratory. Prerequisites: 212, 221, 302, 431.
- 410-4. STRATIGRAPHY AND SEDIMENTATION. The characteristic features of sedimentary rocks and their processes of origin; the classification of stratigraphic units, methods of correlation, and paleogeologic reconstruction. Laboratory. Prerequisites: 220, 221.
- 415-4. OPTICAL MINERALOGY. The optical properties of minerals and the use of the petrographic microscope for identification of crystals by the immersion method and by thin section. Laboratory. Prerequisites: 310, Physics 208.
- 416-4. X-RAY CRYSTALLOGRAPHY. Introduction to the study, measurement, and identification of unknown crystalline materials by X-ray diffraction techniques (especially the Debye-Scherrer method). Upon request, non-geology majors may work with unknowns from their own fields of study. Prerequisites: 310, Mathematics 113.
- 420-3, 421-3, 422-3. GEOLOGY OF PETROLEUM. A sequence of courses considering the geological occurrence of petroleum, including origin, migration, and accumulation; a survey of exploration methods and production problems and techniques. Laboratory study applies geological knowledge to the search for and production of petroleum. Laboratory. Prerequisites: 221, 302.
- 425-5, 426-4, 427-4. PALEONTOLOGY I, II, and III. 425 is a survey of the important invertebrate phyla and their fossil representatives; 426 the mollusca, arthropoda, brachiopoda, and echinodermata; 427 the protozoa, porifera, coelenterata, bryozoa, and other minor groups. Includes classification, evolution, paleoecology, and geographic and stratigraphic distribution. Laboratory. Prerequisites: 221, 425, Zoology 100.

- 430-4. **PHYSIOGRAPHIC PROVINCES OF NORTH AMERICA.** (Same as Geography 430.) Designed to give the student an intelligent appreciation of the evolution of land forms in the physiographic provinces of North America and to explain the surface features in a landscape. Prerequisite: 220 or Geography 100.
- 431-4. **GEOMORPHOLOGY.** A study of land forms, relating topographic features to the underlying rocks and structure and to processes of erosion, deposition, and earth movements. Prerequisite: 220 or Geography 100.
- 440-1 to 4. **INDEPENDENT STUDY.** Prerequisites: 220, 221, advanced standing.
- 450-9. **FIELD GEOLOGY.** A field mapping course including problems in stratigraphy, structure, paleontology, physiography, and economic geology. Requires a written geologic report. Consult the department for dates, cost, and equipment. Students will live at the Little Grassy Lake campus. Prerequisite: 302.
- 510-3, 511-3, 512-3. **STRATIGRAPHY.** (Paleozoic, Mesozoic, Cenozoic.) Character, chronologic sequence, correlation, time relations, facies, analysis and comparison of rock and biostratigraphic units of selected regions throughout the world with emphasis on North America. Laboratory problems involving stratigraphic interpretation from maps, construction of stratigraphic sections, facies maps, and faunal analysis. Field trip and written report required. 3 lectures, 1 laboratory. Prerequisites: 302 425, 426.
- 515-4, 516-4, 517-4. **MINERAL DEPOSITS.** (Principles, Metallics, Non-metallics.) Principles of mineral deposition and genesis, and the origins and geologic settings of the important mineral deposits of the world. Laboratory. Prerequisites: 302, 310.
- 520-4. **IGNEOUS PETROLOGY.** Physical chemistry, petrographic classification, and genetic relationships of the igneous rocks. Prerequisites: 310, 415, or equivalent.
- 521-4. **METAMORPHIC PETROLOGY.** Physical chemistry, petrographic classification, and genetic relationships of the metamorphic rocks. Prerequisites: 310, 415, or equivalent.
- 522-4. **SEDIMENTARY PETROLOGY.** Petrographic classification and origin of sedimentary rocks. Prerequisites: 310, 415.
- 528-3. **INTRODUCTION TO MICROPALAEONTOLOGY.** The study of Foraminifera and Ostracoda is emphasized, but a survey of microscopic fossil organisms and skeletal elements of megafossils is included. Laboratory work in techniques of collection and preparation and methods of study of microfossils. Prerequisite: 426.
- 540-1 to 9. **ADVANCED STUDIES.**
- 541-1 to 9. **RESEARCH.**
- 599-2 to 9. **THESIS.** Minimum of 5 hours to be counted toward a master's degree.

GOVERNMENT

- 406-4. **THE AMERICAN CHIEF EXECUTIVE: PRESIDENT AND GOVERNOR.** A study of the origin and background of the presidency and the governorship, qualifications, nomination and election, succession and re-

- moval, the organization of the executive branch, and the powers and functions of the president and governor. Prerequisites: 231, 232.
- 410-5. **LABOR AND POLITICS.** A political history of the American labor movement from its early nineteenth-century origins to the present day. Attention is given to the political philosophy and practice of labor unions. Prerequisite: 231.
- 415-3. **POLITICAL BEHAVIOR.** An analysis of the nature of public opinion and methods of influencing political behavior. Major attention given to studying the basic psychological attitudes and behavior. Prerequisite: 231.
- 420-3. **PRESSURE GROUPS AND POLITICS.** An analysis of interest groups and their techniques of political propaganda. Prerequisite: 101 or 231.
- 432-3. **GOVERNMENT AND NATURAL RESOURCES.** A study of the administrative and policy problems in the development of multiple purpose conservation programs by the national government. Prerequisite: 231 or consent of instructor.
- 434-3. **GOVERNMENT AND AGRICULTURE.** An historical and contemporary survey of the role of agriculture in politics, the major and minor farm parties and pressure groups, the elements of the current "farm problem," and the influence of agriculture in public agencies and the formation of public policy. Prerequisite: 231.
- 435-4. **GOVERNMENT AND BUSINESS.** An historical study, with contemporary emphasis upon relations between government and economic institutions. Prerequisite: 231 or consent of instructor.
- 436-3. **GOVERNMENT AND LABOR.** (Same as Economics 436.) A study of labor relations and legislation considering both constitutional and economic aspects. Prerequisites: 101 or 231 or 300, Economics 205, or consent of instructor.
- 438-4. **SOCIAL WELFARE LEGISLATION.** The Social Security Act and other legislation of major significance for the welfare and maintenance of the family, the handicapped, children, and other special groups. Their relationship to the legal structure of federal, state, county, township, and municipal welfare facilities and institutions with indications of economic and social consequences. Prerequisite: 101 or consent of instructor.
- 440-5. **PUBLIC PERSONNEL MANAGEMENT.** A survey of the methods and functions of modern public personnel administration. Prerequisite: 360.
- 441-4. **PHILOSOPHY OF GOVERNMENT.** (Same as Philosophy 441.) Some of the central problems of modern political life, such as sovereignty, world government, authority and consent, the relations of economics and social studies to political theory. Prerequisite: Philosophy 140 or 340, or consent of instructor.
- 445-2 to 8. **SOUTH AMERICAN STUDY TOUR.** Study tour of various South American countries. Tour preceded by required reading, lectures, and examination. Lectures by professors of universities in countries visited on topics of special interest in each country. Study of political, economic, social, historical, artistic, and geographic characteristics of these countries. Credit may be earned in foreign languages, or in a combination of departments, as determined by consultation with department chairmen and the Latin American Institute. Final week on campus for completion of papers and reports. Prerequisite: advanced standing in major department.
- 452-4. **GOVERNMENTS AND POLITICS OF SUB-SAHARA AFRICA.** A

- study of the governments and politics of the former and present British and French territories: Ghana, Nigeria, Kenya, Guinea, Congo, Senegal, etc. Prerequisite: 390 or consent of instructor.
- 453-4. SOVIET RUSSIA AND THE COMMUNIST STATES OF EASTERN EUROPE. An intensive study and research exercise in communist government and politics. Prerequisite: 390 or consent of instructor.
- 454-8. DEVELOPMENT OF GERMAN DEMOCRACY. Offered co-operatively by Southern Illinois University and the University of Hamburg. Involves a summer's residence in Hamburg, Germany, and study under professors of the two co-operating universities. Prerequisite: consent of the American professor.
- 455-4. MAJOR GOVERNMENTS OF WESTERN AND CENTRAL EUROPE. A comparative study of the political systems of the major countries of Western and central Europe. Prerequisite: 390 or consent of instructor.
- 456-4. GOVERNMENT OF THE BRITISH COMMONWEALTH AND EMPIRE. A survey of the governmental institutions and practices within the British Empire, with particular attention to the political systems of Australia, Canada, and South Africa. (The governments of India and Pakistan are treated in 458.) Prerequisite: 390 or consent of instructor.
- 457-4. GOVERNMENT AND POLITICS IN THE NEAR AND MIDDLE EAST. Iran, Iraq, Syria, Lebanon, Egypt, Jordan, Saudi Arabia, etc. Prerequisite: 390 or consent of instructor.
- 458-4. GOVERNMENT AND POLITICS OF SOUTHEAST ASIA. Burma, Thailand, Malaya, Indochina, Indonesia, Philippines. Prerequisite: 390 or consent of instructor.
- 459-4. GOVERNMENT AND POLITICS OF THE FAR EAST. China, Japan, Korea, Formosa. Prerequisite: 390 or consent of instructor.
- 460-4. GOVERNMENT AND POLITICS OF SOUTH ASIA. India, Pakistan, Ceylon. Prerequisite: 390 or consent of instructor.
- 461-4. THEORY OF PUBLIC ADMINISTRATION. Analysis of various theoretical approaches to public administration with emphasis on recent American literature in this field. Prerequisite: 360 or consent of instructor.
- 462-3. ADMINISTRATIVE ORGANIZATION. A survey of the reorganization movement as a whole in the United States with emphasis on recent national, state, and local developments. Prerequisite: 360 or consent of instructor.
- 463-3. PROBLEMS OF EXECUTIVE MANAGEMENT. Principles of organization; techniques of conducting organization and procedural studies; work simplification; problems of the executive. Prerequisite: 360.
- 464-3. REGULATORY ADMINISTRATION. A study of the work of the major regulatory commissions of the national government. Prerequisite: 360 or consent of instructor.
- 466-3. STATE GOVERNMENT AND ADMINISTRATION. Leading problems of government and administration of American states. Prerequisite: 232.
- 467-3. MUNICIPAL GOVERNMENT AND ADMINISTRATION. Development and functioning of city government in the United States. Prerequisite: 232.
- 468-3. COUNTY GOVERNMENT IN THE UNITED STATES. An examination of the traditional rural county and township, the growing number of metropolitan counties, and the associated growth of special districts in the United States. Prerequisite: 232.

- 469-3. ADMINISTRATION OF STATE AND LOCAL FINANCE. An examination of the administrative problems connected with local and state revenues and expenditures in the United States. Prerequisite: 232.
- 470-4. URBAN PLANNING. (Same as Geography 470.) An interdepartmental course in the basic problems of planning in the urban community. The course includes the administrative and physical principles involved in the planning of urban land use. Emphasis is upon research techniques, design principles, and governmental instrumentalities in the planning process. Prerequisite: consent of instructor.
- 471-4. THE ORGANIZATION AND ADMINISTRATION OF AMERICAN FOREIGN POLICY. An advanced course dealing with the organizational and administrative aspects of American foreign policy. Prerequisite: 243 or 371.
- 472-4. INTERNATIONAL GOVERNMENT. Development and organization of international governmental and administrative systems, with emphasis on the United Nations. Prerequisite: 370.
- 475-4. INTERNATIONAL LAW. Rules and practices governing the nations in their relations in peace and war. Prerequisite: 370.
- 478-4. INTERNATIONAL POLITICS. A study of the interplay of political forces in the international community. Particular emphasis will be placed on war-time diplomacy, peace treaties, the alignments and conflicts of power in the post-war period. Prerequisite: 370 or consent of instructor.
- 480-4. THE PACIFIC AND THE FAR EAST. Political and strategic problems in this area. Prerequisite: 370 or History 370
- 484-4. ANCIENT AND MEDIEVAL POLITICAL THEORIES. Outstanding political theories of the ancient and medieval periods, including theories of Aristotle, Plato, Cicero, St. Augustine, and Thomas Aquinas. Prerequisite: 6 hours of government.
- 485-4. MODERN POLITICAL THEORIES. Important political theories from the Renaissance to the end of the eighteenth century, including the theories of Machiavelli, Hobbes, Rousseau, Locke, and Burke. Prerequisite: 6 hours of government.
- 487-4. AMERICAN POLITICAL IDEAS. An historical study of the political ideas of leading American statesmen and publicists, and their resulting influence upon our governmental system. Prerequisite: 305 or 385.
- 488-3. RECENT POLITICAL THEORY I. The outstanding Anglo-American liberal political theorists from John Stuart Mill to the present. Prerequisite: 305 or 390.
- 489-3. RECENT POLITICAL THEORY II. The outstanding "scientific" political theorists from Karl Marx to the present. Prerequisite: 385 or 391.
- 490-3. RECENT POLITICAL THEORY III. The outstanding idealistic and nationalistic political theorists from Hegel to the present. Prerequisite: 385 or 390.
- 495-4. CONSTITUTIONAL LAW I. Constitutional law of the United States with emphasis upon cases dealing with the framework of our federal system. Prerequisite: 231.
- 496-4. CONSTITUTIONAL LAW II. Constitutional law of the United States with emphasis upon cases dealing with the framework of American liberties. Prerequisite: 231.
- 497-4. ADMINISTRATIVE LAW. Law as it affects public officials in carrying

- out the rights, duties, and necessary functions of the public office. Prerequisite: 360.
- 498-4. JURISPRUDENCE. (Theories of Law.) Major schools in legal thinking. Positive law and natural law. Idea of justice and concept of natural rights. Prerequisite: 231.
- 499-2. RESEARCH METHODS. Practical training in research and writing techniques in the field of government. Bibliographical materials, footnotes, use of law library facilities, and government documents. Required of all beginning graduate students.
- 501-525. SEMINARS. Preparation and presentation, for criticism, of assigned research papers. Hours of credit as announced.
501. SEMINAR IN CONTEMPORARY LEGISLATION. Prerequisite: 340 or consent of instructor.
502. SEMINAR IN GOVERNMENTAL PROBLEMS. Prerequisite: consent of instructor.
503. SEMINAR IN PRESSURE GROUPS. Prerequisite: 420 or consent of instructor.
505. SEMINAR IN POLITICAL PARTIES. Prerequisites: 380, 420, or consent of instructor.
508. SEMINAR IN INTERNATIONAL RELATIONS. Prerequisites: 370, 472 or 475, or consent of instructor.
509. SEMINAR IN INTERNATIONAL ORGANIZATION. Prerequisite: 472 or consent of instructor.
510. SEMINAR IN STATE GOVERNMENT. Prerequisite: 466 or consent of instructor.
511. SEMINAR IN LOCAL GOVERNMENT. Prerequisite: 467 or consent of instructor.
512. SEMINAR IN PUBLIC ADMINISTRATION. Prerequisite: 360 or consent of instructor.
513. SEMINAR IN CONSTITUTIONAL LAW. Prerequisite: 395 or consent of instructor.
515. SEMINAR IN COMPARATIVE CONSTITUTIONS.
516. SEMINAR IN MUNICIPAL ADMINISTRATION. Prerequisite: 467 or consent of instructor.
517. SEMINAR IN PROBLEMS IN POLITICAL THEORY. Prerequisite: 360 or consent of instructor.
520. SEMINAR IN AMERICAN FOREIGN POLICY. Prerequisite: 371 or consent of instructor.
- 521-1 to 12. READINGS IN GOVERNMENT. Supervised readings in selected subjects. Not more than 6 hours may apply toward the master's degree. Prerequisite: consent of instructor.
525. SEMINAR IN INTERNATIONAL LAW. Prerequisite: 475 or consent of instructor.
526. SEMINAR IN COUNTY GOVERNMENT. Prerequisite: 465 or consent of instructor.
- 530-4 to 12. INTERNSHIP IN PUBLIC AFFAIRS. Field work in the office of a governmental agency; city, county, state, national, or international. Under certain circumstances it might be in the office of a political party organization or in that of some organized pressure group. The type of internship and the place and organization in which it is taken must be mutually satisfactory to the student and the department. A paper in

- which the student correlates his academic knowledge with his practical experience is required. Prerequisite: consent of department.
- 595-2 to 4. **INDIVIDUAL RESEARCH.** Selection, investigation, and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Prerequisite: 499 or consent of instructor.
- 598A-1, 598B-1, 598C-1. **TEACHING GOVERNMENT.** A seminar course devoted to the general and specific problems of teaching government on the college level. Required of all graduate assistants who are given teaching assignments, and recommended for other graduate students who contemplate teaching on the college level. Open to staff members.
- 599-2 to 9. **THESIS.** Prerequisite: 499 or consent of instructor. Minimum of 5 hours to be counted toward a degree.
- 600-3 to 48. **DISSERTATION.** Minimum of 36 hours to be earned for the Ph.D. degree.

GUIDANCE

- 400-4. **ORIENTATION PRACTICUM IN COLLEGE PERSONNEL.** The student spends 4-5 hours per week doing routine work under supervision in the Office of Student Affairs.
- 412-4. **MENTAL HYGIENE.** An integration of knowledge and principles concerning factors and conditions in the personal life that tend to facilitate or deter mental health. Mental health viewed as living creatively in an atmosphere of satisfactory interpersonal relations. Prerequisite: 305.
- 420-4. **EDUCATIONAL STATISTICS.** The statistics needed by teachers for classroom use, the reading of educational literature, and informal educational research. Includes methods of organizing and presenting data, describing group performance, describing individual performance, model distributions, measure of relationship, measures of reliability, and tests of significance. Prerequisite: 305.
- 422-3 or 4. **EDUCATIONAL MEASUREMENTS I.** Study of the philosophy and techniques of measurement. Special attention to the construction and use of teacher-made tests. Prerequisite: 305.
- 426-4. **INDIVIDUAL INVENTORY.** Principles and procedures for studying individual pupils and their problems, for guidance purposes. Emphasis on interview, observation, ratings, case study, cumulative record, etc. Prerequisites: 442, and 421 or 422.
- 442-4. **BASIC PRINCIPLES OF GUIDANCE.** Introductory course on student personnel services. Survey of philosophy, principles, and organization of guidance services. Prerequisite: 305.
- 475-4. **IMPLEMENTATION OF GUIDANCE PRINCIPLES IN THE PUBLIC SCHOOLS.** Survey course for non-guidance personnel. Emphasizes methods of co-operating with guidance personnel in establishing and maintaining a functional program of guidance services. Prerequisite: consent of instructor. Offered on demand.
- 481-1 to 6. **SEMINAR ON A SELECTED TOPIC.** Seminars conducted by staff members and/or distinguished guest lecturers on topics related to the area of guidance. Amount of credit will be determined on the basis of the topic and the amount of time required for adequate presentation.

- 485-4 to 9. WORKSHOP IN EDUCATIONAL UTILIZATION OF COMMUNITY RESOURCES. (Same as Education 485.)
- 501-2 to 6. SPECIAL RESEARCH PROBLEMS. For majors in the Department of Guidance. Formulating, investigating, and reporting on a problem in the area of guidance. Prerequisite: advanced standing and consent of instructor.
- 502-4. MEASUREMENT AND EVALUATION OF PRODUCTS AND PROCEDURES. See Industrial Education 502 for course description.
- 503-4. TESTS AND MEASUREMENTS IN BUSINESS EDUCATION. See Secretarial and Business Education 503 for course description.
- 511-4. EDUCATIONAL IMPLICATIONS OF LEARNING THEORIES. Survey of the major theories of learning; conditioning, connectionism, and field theory. Emphasizes the implications of these theories for classroom practice. Prerequisite: 412, 420, 422, 442.
- 515-4. PSYCHOLOGICAL ASPECTS OF EDUCATION. Seminar in which each student prepares and presents a paper concerning a specific application of psychological principles in an educational situation. Discussion by class and staff follows each presentation. Prerequisites: 412, 420, 422, 442.
- 520-4. ADVANCED EDUCATIONAL STATISTICS. Statistical methods needed for educational research. Includes reliability of statistics, tests of significance, nonparametrics, correlational analysis, and test selection. Prerequisite: 420.
- 521-4. DESIGNING OF EXPERIMENTS IN EDUCATION. Systems of organizing and analyzing data so that maximum information can be obtained. Includes analysis of variance, factorial design, square designs, mixed designs, tests of homogeneity, analysis of covariance, etc. Prerequisite: 520.
- 522-4. EDUCATIONAL MEASUREMENTS II. Study of standardized tests and other measuring devices to reveal individual and group characteristics. Emphasizes application and interpretation for counseling, education, and research purposes. Prerequisites: 420, 422.
- 525-4. SCHOOL BEHAVIOR PROBLEMS AND THEIR PREVENTION. Etiological factors, differential diagnosis, and methods used in the correction of behavior problems. Consideration of intra-community and extra-community facilities available in treatment programs. Includes in-service field work. Prerequisites: 412, 442.
- 526-4. TECHNIQUES IN INDIVIDUAL GUIDANCE. Each student employs psychometric procedures, makes observations, and holds interviews with the student, the parent, the teachers, and others. The student to work with one individual throughout the term. Prerequisite: 525.
- 528-4. ADVANCED GUIDANCE OF THE INDIVIDUAL. A continuation of 426 or 526. Techniques and the methods of treatment which would apply to a particular case. Individual directions and guidance given students by members of the staff. Problems for consideration; educational difficulties, physical disorders, and the way in which these are related to behavior of school children. Prerequisite: 526.
- 535-4. INTRODUCTION TO INDIVIDUAL MEASUREMENT. Survey of theories and practices in the individual assessment of human behavioral characteristics, to develop understanding and appreciation of these concepts for use in the counseling relationship. Prerequisite: 522.
- 536A-4. APPRAISAL OF INTELLIGENCE (Elementary School Level).

- 536B-4. APPRAISAL OF INTELLIGENCE. (Adolescents).
- 537-4. COUNSELING THEORY AND PRACTICE I. Systematic study of the major approaches to counseling. Observation and practice utilized to supplement didactic discussion. Prerequisite: 441 or 442 or consent of instructor.
- 538-3. COUNSELING THEORY AND PRACTICE II. Systematic study of major theories of counseling, as they apply to school situations. Supervised experience in role-playing utilizing these approaches to counseling. Prerequisite: 537.
- 539-3. COUNSELING THEORY AND PRACTICE III. Continuation of 538 with supervised experience in actual counseling to illustrate relationship of theory and practice. Prerequisite: 538.
- 541-4. OCCUPATIONAL INFORMATION AND GUIDANCE. Designed for school counselors, industrial supervisors, and teachers to give them an orientation to and experience with occupational information and vocational adjustment. Prerequisites: 412, 442.
- 543-4. GUIDANCE THROUGH GROUPS. Study of the methods, techniques, and materials for the organization and utilization of groups for guidance purposes. Prerequisites: 412, 442.
- 545-4. SEMINAR IN GUIDANCE. A seminar-laboratory course to discuss current problems in guidance as met by guidance workers in the field in the following areas. A. Problems in Guidance, B. College Student Personnel, C. Educational Diagnosis, D. Test Development, E. Test Analysis, F. Pupil Adjustment, G. Learning and Instruction, H. Individual Differences, J. Organization and Administration, K. Rehabilitation.
- 550-2 to 8. PRACTICUM IN STUDENT PERSONNEL WORK. Practical work experience, under supervision, is provided in each of the following practicum areas. Open to majors in student personnel work who present adequate background and course work. Not more than 8 hours granted in any one area. A. Counseling, B. Group Activities, C. Housing, D. Student Aids, E. Administration, F. Testing.
- 562A-4. CHILD DEVELOPMENT IN EDUCATION. How children mature and develop with emphasis upon manipulating the curriculum and other school activities to promote normal healthy development. Prerequisite: 412.
- 562B-4. ADOLESCENT DEVELOPMENT IN EDUCATION. The problems of adolescence with emphasis upon ways in which the school can help adolescents in solving these problems. Prerequisite: 412.
- 565-4. PSYCHOLOGY OF ELEMENTARY SCHOOL SUBJECTS.
- 566-4. PSYCHOLOGY OF SECONDARY SCHOOL SUBJECTS.
- 573-2. SELECTION, PLACEMENT, AND FOLLOW-UP. Survey of current techniques and criteria used in selection, placement, and follow-up of both handicapped and non-handicapped employees.
- 574-1 to 12. SUPERVISED EXPERIENCE IN REHABILITATION. Experience both on and off campus in interviewing, counseling, case study, and placement of rehabilitation clients under adequate supervision.
- 575A-1 to 4. PRACTICUM IN REHABILITATION: COUNSELING. Practical experience in counseling the handicapped. Prerequisites: consent of Rehabilitation Institute.
- 576-4. PRACTICUM IN SCHOOL PERSONNEL WORK. Laboratory research course for advanced majors. Students to assist with testing programs,

keeping records, counseling students. Research projects to accompany practical experience. Minimum of 12 hours per week "on the job." Prerequisite: advanced standing.

- 581-4. INTERNSHIP: APPRAISAL TECHNIQUES AND PROCEDURES. Supervised experience in administering, scoring, interpreting, and using tests in a public school program. Prerequisite: consent of instructor. Offered on demand.
- 582-4. INTERNSHIP: COUNSELING. Supervised counseling experience with students in a public school guidance program. To include counseling of educational, vocational, social, and personal problems. Prerequisite: consent of instructor. Offered on demand.
- 583-4. INTERNSHIP: GROUP GUIDANCE TECHNIQUES. Supervised experience in conducting group guidance in a public school program. To include work with regularly scheduled group guidance classes as well as with clubs and other student organizations. Prerequisite: consent of instructor. Offered on demand.
- 596-5 to 9. INDEPENDENT INVESTIGATION. This is a field study required of each student working for the sixth-year professional certificate. The work should be done in the setting of a school system where the student is employed or where full co-operation is extended. The study will involve selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summations.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.
- 600-3 to 48. DISSERTATION. Minimum of 36 hours to be earned for the Ph.D. degree.

HEALTH EDUCATION

- 400-4. HEALTH APPRAISAL OF SCHOOL CHILDREN. The role of the teacher in the health appraisal of the school child, including school health examinations, use of health records, and emphasis on training for recognition of health deviations from normal common among school children. Not open to students who have had 450.
- 405-3. METHODS AND MATERIALS IN SOCIAL HYGIENE. Designed to prepare the prospective teacher to instruct in various phases of family life education.
- 413S-4. SAFE AND HEALTHFUL LIVING OUTDOORS. Included are foods, sanitation, survival, plants and animals, natural hazards, emergency care, water, riflery, and others. Prerequisites: 334, and at least 10 hours of biological sciences.
- 415S-3 to 4. WORKSHOP IN DRIVER EDUCATION AND TRAFFIC SAFETY. Summer course designed for pre-service and in-service teachers of driver education and traffic safety. Individual and group problems will be treated. Lectures by safety authorities, demonstrations, field trips, audio-visual materials, and individually supervised research in special problem areas. Prerequisite: 302 or equivalent.
- 443S-4. METHODS AND MATERIALS IN DRIVER EDUCATION. An advanced course in driver education which includes a study of existing courses of study, review of research, course-of-study planning, visitation

- and reporting, panel discussions, accident statistics, conducting the secondary school program, testing, and demonstration in the car. Prerequisite: 302.
- 450-4. HEALTH EDUCATION IN THE ELEMENTARY SCHOOL. Responsibilities of schools to instruct their students in basic fundamentals of how to live healthfully. Principles, methods, programs, and materials for the elementary teacher. The integration of health with other subjects, health observation of children, abnormalities, screening tests, and related materials. Not open to students who have had 400.
- 460-4. METHODS AND MATERIALS IN SECONDARY SCHOOL HEALTH EDUCATION. Shows the prospective teacher the fundamental processes involved in the teaching of health education at the secondary level.
- 461-4 to 8. WORKSHOP IN HEALTH EDUCATION. Summer course for in-service teachers, administrators, advanced students, nurses, social workers, and others interested in public health aspects of school and community living. Individual problems of classroom health treated as units in such fields as speech defects and their detection and correction, communicable disease control, nutrition, social and mental hygiene. Lectures, demonstrations, films, field trips, and individually supervised research in special problems. Prerequisite: 100 or equivalent.
- 462-4. HEALTH EDUCATION WORKSHOP. A continuation of 461 with emphasis on total school health teaching objectives.
- 463-4. HEALTH EDUCATION WORKSHOP. A continuation of 462 with emphasis on evaluation of total school health teaching program.
- 471-4. ORGANIZATION AND ADMINISTRATION OF SCHOOL HEALTH. Appraisal of over-all school organization for health education, including health service and personnel, health and safety instruction, school environment, school health examination, local, state, and federal resources for health, health councils, and interdepartmental relationships.
- 475S-3. TRAFFIC LAW ENFORCEMENT AND PLANNING. To acquaint safety and driver education teachers with the purposes of traffic law enforcement and control, and the methods used to fulfill these purposes. Emphasis on ways of improving existing services and co-ordinating the efforts of many official and nonofficial agencies concerned with the traffic problem. Prerequisite: 443 or consent of instructor.
- 480S-4. WORKSHOP IN SAFETY EDUCATION. Summer course for in-service teachers, nurses, administrators, advanced students, and others interested in safety education as it applies to the public school and the community. Individual problems, lectures, demonstrations, films, field trips, and individual group study in special areas of interest. Prerequisite: 313 or 323 or consent of instructor.
- 488-4. HEALTH EDUCATION ASPECTS OF ENVIRONMENTAL SANITATION. Application of principles of learning to man's contacts with his environment: water, food, air, radiation, housing, and refuse. Emphasis upon both individual and community aspects of environmental health. Prerequisites: 100, 205, or equivalent.
- 489-4. INTRODUCTION TO VITAL STATISTICS. An introduction to biostatistics; examination of theories of population growth; understandings of collection, organization, summarization, presentation, evaluation, and interpretation of data relative to biologic happenings. Prerequisite: Mathematics 120 or equivalent.

- 490-4 to 6. FIELD WORK IN SCHOOL AND COMMUNITY HEALTH. Field training, observation, and participation in current public and school health programs. Area schools and public health agencies will be utilized to provide practical experience for the health education student. Restricted to majors in the department.
- 500-4. COMMUNITY ORGANIZATION FOR HEALTH EDUCATION. Review of the philosophies of community organization for health; techniques of group work, current research in community organization, and examination of programs of community health agencies.
- 510-4. CONSTRUCTION OF THE CURRICULUM IN HEALTH EDUCATION. Review of health instruction programs in elementary and secondary schools, consideration of health needs and interests and their relationship to the curriculum, evaluation of health texts, and evaluation of current research.
- 511-5. PRACTICUM IN HEALTH EDUCATION WORKSHOP. Designed to give graduate and post-graduate students experiences in organizing, planning, and operating in-service training programs through workshop methods.
- 515-4. REVIEW OF CURRENT LITERATURE IN HEALTH EDUCATION, PUBLIC HEALTH, AND SAFETY EDUCATION. A survey and analysis of the newer publications in the related fields of health education, public health, and safety education.
- 520-4 to 6. SPECIAL PROJECTS IN HEALTH EDUCATION. For students who may wish to conduct more detailed research and study on advanced problems in the fields of public health, safety education, and health education.
- 525S-4. ORGANIZATION, ADMINISTRATION, AND SUPERVISION OF SAFETY EDUCATION. Basic principles, problems, policies, practices, and methods involved in the organization and administration of a safety education program.
- 530S-4. PROBLEMS AND RESEARCH IN ACCIDENT PREVENTION. Principles of accident prevention, causes of accidents, problems of behavior, and study of current research related to safe behavior in the school, home, traffic, and transportation. Prerequisites: 443S, 525S, or consent of instructor.
- 533-3. HUMAN CONSERVATION I. An analysis of community health problem trends and changes including aging; chronic and degenerative diseases; mental illnesses; traumatic illnesses, injuries, and defects; radiological hazards; communicable diseases; and maternal and child health problems. An epidemiological approach to the cause, nature, extent, and trends in erosion and wastage of human resources. Prerequisite: consent of instructor.
- 534-3. HUMAN CONSERVATION II. An analysis of community structures in relation to positive health services, education, and healthful living in respects to community health problems and health requirements. A study of trends in programming to meet minimum health requirements and to care for or ameliorate existing health problems and hazards on a community-wide basis. Prerequisite: 533.
- 535-3. HUMAN CONSERVATION III. An analysis of the unmet health needs or requirements for optimum conservation of human resources in the community including a study of pilot and experimental programs and

research in community efforts to meet health needs and solve existing health problems. An evaluative approach to existing health programming and research including an analysis of further needed experimentation and research and possible sources for leadership and funds for promoting community health research, programmings, and planning. Prerequisites: 533, 534.

590-4 to 12. FIELD INTERNSHIP. Full quarter of field work with an approved department of public health or voluntary health agency under the supervision of the agency officer in charge and the supervisor from the Department of Health Education.

HIGHER EDUCATION

- 401-2. CAREERS IN HIGHER EDUCATION—COLLEGE TEACHING.
- 402-2. CAREERS IN HIGHER EDUCATION—COLLEGE STUDENT PERSONNEL.
- 403-2. CAREERS IN HIGHER EDUCATION—COLLEGE ADMINISTRATION. 401-403: A series of exploratory courses designed to acquaint the student with the career possibilities and functions of the respective areas.
- 410-4. HIGHER EDUCATION IN THE UNITED STATES. An overview of higher education with emphasis on current problems and organizational relationships.
- 441-4. FUNCTIONS AND ORGANIZATION OF COLLEGE STUDENT PERSONNEL. A description and discussion of the functions of college student personnel programs with an emphasis on the organizational relationships of the various functions.
- 450-1. ORIENTATION TO COLLEGE TEACHING. An introduction to the problems of college teaching with emphasis on classroom techniques for the graduate assistant or inexperienced college teacher.
- 477-2. PRINCIPLES OF COLLEGE STAFF MANAGEMENT. A study of systems and problems of personnel practices.
- 511-4. HISTORY AND PHILOSOPHY OF HIGHER EDUCATION. A study, using the historical approach, of the development of American philosophy of higher education.
- 512-4. HIGHER EDUCATION IN THE NATIONS OF THE WORLD. A comparative study of higher education systems.
- 513-4. POLICY MAKING AND CONTROL OF HIGHER EDUCATION. A case approach to a study of the sources of policy making, the methods of control, and the relationships among various policy making and operating units.
- 521A - 521S. A series of seminars arranged to meet the needs of specific groups of students.
- 521A-2. SEMINAR—COLLEGE TEACHING.
- 521B-2. SEMINAR—STUDENT VALUES.
- 521C-2. SEMINAR—HOUSING.
- 521E-2. SEMINAR—STAFF PERSONNEL.
- 521F-2. SEMINAR—FINANCE.
- 521G-2. SEMINAR—THE JUNIOR COLLEGE.
- 521M-2. SEMINAR—SOCIOLOGY OF HIGHER EDUCATION.

- 521S-2. SEMINAR—CONTINUING EDUCATION.
- 521Y-2. SEMINAR IN HIGHER EDUCATION—THE TECHNICAL INSTITUTE.
- 522A-1 to 6. READINGS—COLLEGE TEACHING.
- 522B-1 to 6. READINGS—COLLEGE STUDENT PERSONNEL.
- 522C-1 to 6. READINGS—COLLEGE ADMINISTRATION.
- 523A-1 to 12. INTERNSHIP—COLLEGE TEACHING. Supervised work experiences in appropriate settings.
- 523B-1 to 12. INTERNSHIP—COLLEGE STUDENT PERSONNEL. Supervised work experiences in appropriate settings.
- 523C-1 to 12. INTERNSHIP—COLLEGE ADMINISTRATION. Supervised work experiences in appropriate settings.
- 546-4. PERSONNEL WORK WITH COLLEGE STUDENT GROUPS. A case approach to the understanding of the various aspects and relationships of student cocurricular activities. Emphasis on the role of group activities in the educational life of the student and the college community.
- 551-4. CURRICULUM DESIGN AND DEVELOPMENT IN HIGHER EDUCATION. Examination of methods and resources in designing various college curricula. Emphasis on experimentation in curriculum development.
- 565-4. THE JUNIOR COLLEGE. A study of the function of the junior college in American higher education with particular emphasis on relationships to the secondary school and to the community. Course content treats special problems of curriculum, student services, finance, and faculty selection and growth.
- 576-4. ADMINISTRATIVE PRACTICES IN HIGHER EDUCATION. A study of administrative behavior with applications to higher education setting.
- 578-4. FINANCE OF HIGHER EDUCATION. A description of the economic aspects of higher education. Study of sources and management of college finance including budgeting and control.

HISTORY

- 400-3 to 6. TEACHERS' WORKSHOP IN CURRENT HISTORY. A series of lectures, readings, discussions, and projects designed to aid the teacher in understanding and interpreting some of the major problems of present-day society.
- 401-3. THE OLD SOUTH. An intensive study of the social, economic, political, and cultural development of the "Old South" to the Civil War, to bring out the distinctive culture and problems of the section. Prerequisite: 201.
- 402-3. THE NEW SOUTH. The Civil War, political and economic reconstruction, and problems of the "New South." Prerequisite: 202 or 401.
- 405-3. CIVIL WAR AND RECONSTRUCTION. Emphasis upon the clash of national and sectional interests; economic, political, and military aspects of the conflict; course and consequences of reconstruction. Prerequisites: 201, 202.
- 410-2 to 5. SPECIAL READINGS IN HISTORY. Supervised readings for students with sufficient background. Registration by special permission only. Offered on demand.

- 411-3, 412-3, 413-3. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES. (1607-1830, 1830-1900, 1900 to present.) The development of American society and a study of various types of economic, social, and political thought that have influenced it.
- 415-3. THE AGE OF THE RENAISSANCE. A treatment of the Italian Renaissance and its relationship to the political, economic, social, and cultural changes in the countries of northern and western Europe. Prerequisites: 101, 102, 103.
- 416-3. THE AGE OF THE REFORMATION. A study of the reform movement which divided the Christian Church into Protestantism and Catholicism, with a treatment of the Counter Reformation. Prerequisites: 101, 102, 103.
- 417-3. THE BRITISH COMMONWEALTH OF NATIONS. The evolution and present status of the Commonwealth of Nations and its self-governing and dependent units with an emphasis on the impact of the social, economic, and political ideas upon the pattern of control and development during each stage of growth.
- 418-3. ENGLISH CONSTITUTIONAL HISTORY. The evolution and functioning of the English legislative, administrative, and judicial systems with an emphasis on the ideas and principles that determined growth during each age.
- 419-3. ENGLISH CULTURE IN THE AGE OF AMERICAN COLONIZATION. An analysis of the English social, economic, political, and religious institutions and ideas which provided the foundation for the growth of American civilization.
- 420-3. THE FRENCH REVOLUTION. A sketch of the passing of feudalism in France, the background and development of the revolutionary movement, and the Napoleonic period.
- 425-3. AMERICAN COLONIAL HISTORY. Founding of the American colonies, both French and English, and the development of social, political, economic, and cultural institutions through the Revolutionary period. Prerequisite: 201.
- 435-3, 436-3, 437-3. RECENT UNITED STATES HISTORY, 1865 TO PRESENT. A sequence of courses covering the major problems and trends from the Civil War to the present. Courses may be taken separately. Prerequisites: 201, 202.
- 440-3. AMERICAN DIPLOMACY TO 1898. A study of the important treaty relations of the United States, and a general consideration of American foreign policies. Prerequisites: 201, 202.
- 441-3. AMERICAN DIPLOMACY SINCE 1898. A continuation of 440.
- 442-3, 443-3, 444-3. HISTORY OF THE WEST. A series of three courses providing an intensive study of the Colonial, Trans-Alleghany and Trans-Mississippi frontiers and showing the influences of the West in the various periods in United States history.
- 449-4. DEVELOPMENT OF AFRO-ASIAN NATIONALISM. A study of the rise of national movements, the winning of independence, and the vast array of reconstructional problems. Post-Bandung developments and the relation of Afro-Asian nationalism to the Communist world are extensively discussed.
- 450-3. EUROPE SINCE 1914. Brief review of the results of World War I. Em-

- phasis upon the League of Nations, war debts, disarmament, the rise of national socialism, causes and conduct of World War II.
- 451-3. HISTORIOGRAPHY. Development of history as a written subject, including works and philosophy of the various outstanding historians in ancient, medieval, and modern periods.
- 452-3. HISTORICAL RESEARCH AND THESIS WRITING. The rules of historical research studied and applied to a definite topic.
- 454-3. BIOGRAPHY IN AMERICAN HISTORY. Outstanding leaders and their contributions to the history of the United States. Attention to historical writers who specialize in biography. Prerequisite: a course in United States history.
- 455-3. HISTORY OF INNER-ASIAN RELATIONS. Tribes, migrations, wars, and power politics in Central Asia and outlying areas of China from Han times through 19th century rivalries to latest developments along the Sino-Soviet frontier.
- 470-3. ARGENTINA, BRAZIL, AND CHILE. A narrative and comparative study of the independent era of the history of the three leading states of South America.
- 471-3. MEXICO IN THE NINETEENTH CENTURY. Significant aspects of Mexican life from independence to the decline of the Diaz Era.
- 472-3. MEXICO IN THE TWENTIETH CENTURY. An analysis of the political, economic, diplomatic, social, and cultural forces in modern Mexican life.
- 473-3. THE CARIBBEAN AREA IN THE TWENTIETH CENTURY. An inquiry into the changing role of the political, economic, strategic, and cultural nature of this Mediterranean of the New World.
- 480-3. ROME: THE LATE REPUBLIC. The framework of the course is political, covering the years from 133 B.C. to A.D. 14. Attention is given also to Roman literature and culture, and to a broad view of the early empire (including Palestine) in the years immediately preceding the Christian Era.
- 481-3. ROME: THE EMPIRE. The civilization of the first two centuries of the Roman Empire. Against a background of general political history, attention is directed to the philosophical schools, pagan religions, and other factors affecting the rise and extension of Christianity.
- 485-3. GREEK CIVILIZATION. Development of the unique features of Greek thought (historical, religious, scientific, philosophical), art, literature, architecture, etc.
- 490-3. HISTORY IN THE SECONDARY SCHOOL. A comprehensive methods course for prospective teachers: history, government and civics, current events, economics, sociology, and geography; curriculum revision; grading of materials; classroom methods; teacher preparation; professional publications. Attention to the unified social science course.
- 500-3 to 9. HISTORY SEMINAR. Research methods applied to the various history fields.
- 510-2 to 5. READINGS IN HISTORY. Registration by special permission only.
- 515-3. CURRENT UNITED STATES HISTORY AND PROBLEMS. A content and research course dealing with contemporary American affairs. Consists of textbook assignments, outside readings. Prerequisite: proper background.

- 516-5. STUDIES IN CONTEMPORARY EUROPE. A content and research course in European civilization since 1914 which stresses the rise of totalitarianism and the democratic crisis.
- 517-3. CONSTITUTIONAL HISTORY OF THE UNITED STATES AND PROBLEMS. A content and research course involving origin and development of the American Constitution, from English background, through the convention, to the present.
- 518-3. ENGLAND IN THE AGE OF THE "GLORIOUS REVOLUTION." An analysis of the ideas and forces that converted the English government into a liberal state with an emphasis on the concepts and principles later applied in the establishment of the American Constitution.
- 519-5. THE AGE OF JEFFERSON. Rise and development of Jeffersonian Democracy, 1790-1824, with emphasis upon social, economic, and political programs of Republicans and Federalists; the clash of mercantile and agrarian interests.
- 520-3. THE AGE OF CONSTANTINE. A study of fourth-century Rome. Particular attention is given to religious policy. Such problems as the religious persecution preceding Constantine, his conversion to Christianity, the reaction following his death, the final establishment of Christianity as the official religion of the Empire.
- 553-3. NEW VIEWPOINTS IN AMERICAN HISTORY. New interpretations and recent developments in American History. Prerequisites: 201, 202.
- 590-1 to 6. INDIVIDUAL RESEARCH. The investigation of a research topic in history under the supervision of a member of the graduate staff in the particular field. By special arrangement.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

HOME AND FAMILY

- 424-4. SELECTION, USE, AND CARE OF APPLIANCES. Materials used in equipment, methods of construction, principles of operation of appliances for cooking, refrigeration, laundering, cleaning; selection, operation, and care of appliances to obtain maximum satisfaction in use. Offered on demand.
- 435-4. WORK SIMPLIFICATION IN HOME MANAGEMENT. Basic scientific work simplification principles applied to work done in the home by full-time employed or physically handicapped homemakers.
- 456-4. INFANT DEVELOPMENT. Current theories and knowledge concerning growth and development of infants with related laboratory and field experiences. Prerequisite: 237 or Psychology 301.
- 466-2. PRACTICUM IN PARENT-CHILD STUDY. Designed to increase students' ability to work with parents and parent groups through an awareness of factors in the parent-child relationship and knowledge of current research and methods in parent education. Integration with infant and child development laboratories and related field experience.
- 481-2 to 6. READINGS. Supervised readings for qualified students. Prerequisite: consent of instructor and chairman of department.
- 540-4. TRENDS IN CONSUMER PROBLEMS. Social, legal, and economic

- problems that pertain to the consumer. Consumer education in the public school program; selection of individual problems for investigation. Prerequisite: 341 or equivalent.
- 550-4. **ADVANCED HOME MANAGEMENT.** Readings, observations, projects, and discussions on selected problems with emphasis on time, money, energy, and family relations. Prerequisites: 331, 332, or equivalent.
- 556-4. **THE PRE-SCHOOL CHILD.** Growth of the child from birth to six years with emphasis on the various aspects of growth and their interrelationships.
- 562-4. **CHILD DEVELOPMENT THROUGH HOME AND SCHOOL.** The normal, healthy development of children as it takes place in the home and is promoted by the curriculum and other school activities.
- 566-4. **INTERPERSONAL RELATIONSHIPS WITHIN THE FAMILY.** Factors that promote satisfactions within the immediate family; planning and preparing teaching units and source materials in this field.
- 571-4. **RECENT RESEARCH.** Review of selected research in various phases of home economics in related fields. Sources of research include colleges universities, and governmental and industrial agencies. Offered on demand.
- 572-2 to 8. **SPECIAL PROBLEMS.** For students recommended by their chairman and approved by the head of the department and the instructor in charge for independent work or directed study.
- 599-2 to 9. **THESIS.** Minimum of 5 hours to be counted toward a master's degree.
- 600-3 to 48. **DISSERTATION.** Minimum of 36 hours to be earned for the Ph.D. degree.

HOME ECONOMICS EDUCATION

- 414-4. **HOME ECONOMICS FOR ELEMENTARY TEACHERS.** Units of work in nutrition, school lunches, family and social relationships, textiles, and clothing.
- 415-1. **INTRODUCTION TO GRADUATE STUDY.** Seminar to orient the student to graduate work through relation of courses to goals of program, standards of work, habits of thinking, communication of ideas, uses of professional materials and publications. Required. Student should take at first opportunity.
- 481-2 to 6. **READINGS.** Supervised readings for qualified students. Prerequisite: consent of instructor and chairman of department.
- 500-4. **RESEARCH METHODS.** Methods employed in research in home economics education with special study of one according to interest and needs of student. Development of prospectus. Prerequisites: Guidance 420, 422, or consent of instructor.
- 505-4. **HOME ECONOMICS IN SECONDARY SCHOOLS.** Consideration of the curriculum for homemaking education in the secondary school. A critical survey of resources. The place of homemaking education in the school and community.
- 506-4. **EVALUATIVE PROCEDURES IN HOME ECONOMICS.** Principles and procedures underlying appraisal and evaluation. Development and

- critical consideration of instruments for appraising pupil growth and the program of instruction. Emphasis placed on values.
- 507-2 to 4. WORKSHOP. Designed to aid home economics teachers, supervisors, leaders in the field with current problems. Resource people are used. Discussions, reports, lectures, and other methods of analyzing and working on solutions to problems. Emphasis for the workshop will be stated in the announcement of the course.
- 510-4. SUPERVISION OF HOME ECONOMICS. Nature, function, and techniques of supervision at all levels. Emphasis given to supervision of student teachers. Experience in the field will be provided for qualified teachers.
- 510A-1 to 4. PRACTICUM IN SUPERVISION. Experience in using a variety of techniques at various levels and areas of supervision both on and off campus. Prerequisite: 510 or Educational Administration and Supervision 456 or consent of instructor.
- 515-4. TRENDS IN HOME ECONOMICS EDUCATION. Current trends, problems, needs in the field. Attention given to problems and needs of students.
- 516-4. ADVANCED METHODS OF TEACHING HOME ECONOMICS. Recent trends in methods based on research and experimental programs; furthering good relations in homemaking classes as means of clarifying and accomplishing goals; teacher's role; techniques useful in furthering good relations within group and in meeting individual needs. Emphasis given to social significance of these procedures.
- 517-4. METHODS AND MATERIALS FOR ADULT PROGRAMS IN HOME ECONOMICS. Philosophy of adult education; unit planning, methods, techniques, and resources useful in adult homemaking programs.
- 571-4. RECENT RESEARCH. Review of selected research in various phases of home economics in related fields. Sources of research include colleges universities, and governmental and industrial agencies. Offered on demand.
- 572-2 to 8. SPECIAL PROBLEMS. For students recommended by their chairman and approved by the head of the department and the instructor in charge for independent work or directed study.
- 573-1 to 6. SEMINAR: RESEARCH IN HOME ECONOMICS EDUCATION. Presentation of prospectus outlines, research projects, problems for research, progress reports of research by graduate students and faculty. Prerequisite: consent of instructor.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.
- 600-3 to 48. DISSERTATION. Minimum of 36 hours to be earned for the Ph.D. degree.

INDUSTRIAL EDUCATION

- 430-2 to 6. SPECIAL PROBLEMS IN THE ARTS AND INDUSTRIES. An opportunity for students to obtain special instruction in the solution of problems in specific subject matter fields. Prerequisite: consent of department.
- 435-6 to 12. MANUAL ARTS INTERNSHIP. Supervised hospital experience

featuring various applications of manual arts therapeutical treatments. A maximum of 12 hours allowed for course with a maximum of 6 hours for any one enrollment period.

- 450-1 to 6. **ADVANCED SKILLS IN TECHNICAL SUBJECTS.** Modern industrial practices and techniques in various selected technical fields. For experienced persons seeking opportunities to develop advanced skills and to increase understandings in specialized industrial fields. Emphasis on modern industrial processes, methods, materials, and techniques used in school shops, drafting rooms, and industrial organizations. Prerequisite: basic training in area selected for study.
- 480-4. **PROBLEMS OF INDUSTRIAL ARTS CRAFTS IN ELEMENTARY SCHOOLS AND RECREATIONAL PROGRAMS.** For elementary school teachers and supervisors of elementary education craft programs. Three lectures and one laboratory.
- 490-4. **PRINCIPLES OF INDUSTRIAL TEACHING.** Activities of industrial arts and motivation of learning in industrial subjects. Emphasis on planning and methods of presentation. Prerequisite: consent of department.
- 491-3 to 4. **METHODS OF TEACHING TRADE AND TECHNICAL SUBJECTS.** Emphasis on teaching methods especially appropriate for vocational trade programs and technical schools. Required in the Trades and Industries specialization. Prerequisite: consent of department.
- 492-4. **SCHOOL SHOP PLANNING.** Principles and practices underlying modern school shop planning. Actual school shop plans required.
- 494-3 to 4. **ORGANIZATION AND ADMINISTRATION OF INDUSTRIAL EDUCATION.** Principles and policies governing the administration of industrial education programs in elementary, junior, senior high schools; relation of federal and state supervision of industrial education to local administration.
- 495-3 to 4. **OCCUPATIONAL ANALYSIS.** Involves the fundamental steps for analyzing trades and other occupations with some thought toward establishing appropriate units of instruction for the apprentice or student. Jobs, operations, and essential related information are analyzed.
- 496-3 to 4. **SELECTION AND ORGANIZATION OF SUBJECT MATTER.** Selection and arrangement of teaching content; preparation of assignment, operation, information, and job sheets; preparation of tests.
- 497-4. **THE LITERATURE OF INDUSTRIAL EDUCATION.** An introduction to the literature in the field of industrial arts and vocational industrial education. Of importance to persons who expect to make industrial teacher education a career.
- 498-4. **ORGANIZING AND ADMINISTERING THE GENERAL SHOP.** Study and practice in the development of a general shop featuring multiple offerings. Development and organization of appropriate instructional materials and teaching aids.
- 502-4. **MEASUREMENTS AND EVALUATION OF PRODUCTS AND PROCEDURES.** Criteria and instrument development, testing techniques, and appraisals. Special emphasis given to the principles and methods of evaluation of progress in laboratory and shop subjects of a practical arts nature. Experience in development and construction of pertinent and effective evaluative devices.
- 504-4. **HISTORY AND PHILOSOPHY OF INDUSTRIAL EDUCATION.**

- Leaders, organizations, and movements in development and progress of industrial education.
- 505-4. SUPERVISION OF INDUSTRIAL EDUCATION. Study of basic philosophy, purposes, and procedures of specified staff and national plans. Qualifications of the supervisor, of adopted plans, his duties and responsibilities at the various school levels with respect to development and improvement of instruction in shop and drawing subjects. Procedures used in upgrading teachers and facilities; development and use of professional incentives.
- 506-4. PROBLEMS OF CO-ORDINATOR. Problems and procedures involved in setting up and operating co-operative part-time and evening school programs.
- 508-4. TEACHING AIDS IN INDUSTRIAL EDUCATION. Selection, development, and use of industrial illustrations and instructional aids and devices.
- 540-3 to 6. RESEARCH IN INDUSTRIAL EDUCATION.
- 541-4. OCCUPATIONAL INFORMATION AND GUIDANCE. Designed for school counselors, industrial supervisors, and teachers to give them orientation to and experience with occupational information and vocational adjustment. Prerequisite: consent of instructor.
- 550-4. COLLEGE TEACHING OF INDUSTRIAL AND TECHNICAL SUBJECTS. Problems of college students and their adjustments to college-level industrial and technical subject-matter. Organization of instructional materials; methods of instruction; organization and administration of college laboratory facilities; and the professional problems, ethics, and advancement of college technical teachers. Prerequisite: 540 or Educational Administration and Supervision 500.
- 560-1 to 8. NEW DEVELOPMENTS IN INDUSTRIAL EDUCATION. An intensive course designed to acquaint graduate students and teachers with the most recent and significant developments, pressing problems, and emerging trends in the industrial education and technical fields. Selected subjects will be considered by recognized authorities in the field, who will present their ideas and conduct discussions on the selected topics. Credit is available in one- or two-hour units as scheduled.
- 570-2 to 4. SPECIAL INVESTIGATIONS IN INDUSTRIAL EDUCATION. For students who wish to make a thorough study or investigation of a specific problem in industrial education.
- 580-3 to 9. SEMINAR IN INDUSTRIAL EDUCATION.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

INSTRUCTIONAL MATERIALS

- 400-2. LIBRARY RESEARCH METHODS. Introduction to the use of library materials in graduate research. Includes a survey of scholarly publishing and the use of reference works in various subjects.
- 403-4. SCHOOL LIBRARY FUNCTIONS AND MANAGEMENT. Effective library services in relation to the educational objectives of elementary and secondary school programs: organization, supervision, finance, housing, equipment, standards, and evaluation.

- 405-4. LIBRARY MATERIALS FOR CHILDREN. Study of the aids, methods, and criteria for the selection and use of books and other instructional materials for children in the elementary schools. Open to juniors with consent of instructor.
- 406-4. LIBRARY MATERIALS FOR ADOLESCENTS. A study of the aids, methods, and criteria for the selection and use of books and other instructional materials for students in the high school. Open to juniors with consent of instructor.
- 417-4. AUDIO-VISUAL METHODS IN EDUCATION. Selection and utilization of audio-visual methods in the teaching situation, elementary through adult levels. Motion pictures, slides, filmstrips, and recordings particularly stressed.
- 420-4. SCHOOL LIBRARY ACTIVITIES AND PRACTICE. Supervised practice and observation integrated with instruction in the typical activities of school librarianship: storytelling, publicity, developing units of library instruction, and work with students. Prerequisite: 306, 308, 403, 405, or 406.
- 440-2. PHOTOGRAPHY FOR TEACHERS. Techniques of picture-taking and the preparation of slides and photographs of community resources for use in classroom instruction—and for school public relations. Materials and techniques for making pictures for classroom use. Emphasizes the getting of educational material for color slides and study prints.
- 445-4. PREPARATION OF TEACHER-MADE AUDIO-VISUAL MATERIALS. Laboratory practice in the preparation of bulletin boards, opaque materials, models, lantern slides, recordings, feltboards, and other graphic materials. Prerequisite: 417 or consent of instructor.
- 457-4. RADIO AND TELEVISION IN THE CLASSROOM. Educational programs and their value to the teacher in the classroom. Sample tapes of radio programs and kinescopes are used.
- 458-4. THE MEDIUM OF THE MOTION PICTURE. A study of the full range of expression by motion pictures including the documentary, theatrical, educational, experimental, and industrial films. Representative films are screened.
- 510-4. MASS COMMUNICATIONS IN EDUCATION. The school and libraries in mass communication. The problems of propaganda, intellectual freedom, methods of research, and international aspects of communication are considered.
- 514-4. READING AND VISUAL STUDIES. A survey of research in individual reading interests and habits, the sociological effect of reading, and the reading of pictures. Prerequisite: 405, 406, 417.
- 530-4. HISTORY OF BOOKS AND LIBRARIES. The evolution of the printed book and the rise and development of modern libraries.
- 546-4. INTEGRATION OF AUDIO-VISUAL MATERIALS IN THE CLASSROOM. Selection of materials on the basis of curricular needs. Problems in disseminating information about audio-visual materials. Techniques of evaluating each type of audio-visual material for use in the classroom. Prerequisite: 417.
- 547-4. SCHOOL FILM AND FILMSTRIP PRODUCTION. Simplified techniques for teachers and audio-visual co-ordinators who may need to produce school-made films and filmstrips to meet local school problems.
- 548-4. SUPERVISION AND ADMINISTRATION OF AN AUDIO-VISUAL

- PROGRAM. Intended to provide professional information and training for anyone who has administrative responsibilities for an audio-visual program. For teachers, co-ordinators, or directors. Prerequisite: 417.
- 549-4. VISUAL LEARNING. Learning from pictures in the classroom, the design of still and moving pictures, pictures used in testing perception, and the place of pictures in advertising and communication. Prerequisite: consent of instructor.
- 554-4. ADMINISTRATION OF AN INSTRUCTIONAL MATERIALS CENTER. Based on the concept of a single agency in the school that encompasses all forms of instructional materials. It is designed to further the training of specialists in the supervision and administration of integrated audio-visual and library programs. Prerequisites: 403, 548, Educational Administration and Supervision 456, 460, or equivalent.
- 560-4. SEMINAR IN INSTRUCTIONAL MATERIALS. Designed to give advanced graduate students an opportunity to investigate and discuss topics in instructional materials before the seminar group. Topics selected would depend on background and interest of individuals.
- 576-2 to 4. PROBLEMS IN INSTRUCTIONAL MATERIALS. Opportunity for individual study of selected problems. Prerequisite: consent of instructor.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

JOURNALISM

- 421-4. SCHOOL PUBLICATIONS. Designed for the prospective journalism teacher or high school publications director. Deals with practical production problems of newspapers and yearbooks.
- 422-3. TEACHING HIGH SCHOOL JOURNALISM. Teaching methods of journalism in secondary schools, organization and course of study, bibliography, use of journalism courses for school publications production.
- 430-2. SEMINAR IN FAR EASTERN PROPAGANDA. Review of propaganda activities by Western and Far Eastern Powers in Asia between the two world wars.
- 432-3. COMMUNICATION AGENCIES AND PUBLIC OPINION. Press, radio, television, and motion pictures and their role in the opinion process.
- 433-3. MEASUREMENT OF PUBLIC OPINION. The sampling survey as a research tool; survey methodologies.
- 449-2. PRACTICUM. Study, observation, and participation in publication supervision. Work required on *The Egyptian* newspaper.
- 499-3. NEWS ANALYSIS IN THE CLASSROOM. A study of the relationship of the newspaper to other high school coursework. Time spent in developing ways of integrating the newspaper in the classroom.
- 501-1 to 9. LITERATURE OF JOURNALISM. Critical reading of selected books relating directly and indirectly to journalism; lectures; reviews; discussions.
- 530-4. SEMINAR IN NEWSPAPER EDITORIAL POLICIES. Observation of the comment function performed by the daily newspaper as related to current issues; role of the editorial writer, syndicated columnist, cartoonist.

- 532-4. SEMINAR IN PUBLIC OPINION AND PROPAGANDA. Study of the developing literature in this field of specialization.
- 533-1 to 9. RESEARCH PROBLEMS IN JOURNALISM. Individual work on selected problems for research.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

MANAGEMENT

- 421-4. MANAGEMENT OF BUSINESS FINANCE. The principal problems of managing the financial operations of an enterprise. Emphasis upon analysis and solutions of problems pertaining to policy decisions. Scope includes both short-term working capital and long-term financing. Prerequisite: 320.
- 428-4. LIFE INSURANCE. Particular attention given to policy forms and provisions, reserve and investment problems, company organization, legal aspects, taxation, and personal and business needs. Prerequisite: 327.
- 429-4. FIRE AND CASUALTY INSURANCE. Economic services performed, contracts, benefits, and premiums of fire and casualty insurance. Prerequisite: 327.
- 455-4. PROGRAMMING FOR DIGITAL COMPUTERS. An intensive course in digital computer programming using an IBM 650 computer for laboratory work. Topics include computer organization and characteristics; machine language coding; flow charts, sub-routines; optimum and symbolic coding; compilers and interpretive systems. Prerequisite: consent of instructor.
- 472-5. SMALL BUSINESS. The position of small business in the national economy, including organization, financing, location, personnel policies, merchandising practices, records, government regulations, and taxes. Prerequisites: Economics 205, senior standing.
- 473-4. BUSINESS ENTERPRISE AND PUBLIC POLICY. Some major problems of social control of business arising out of the operation of business in modern society; the necessity for control, types of control from business self-regulation to government ownership, the effect of control on business, and the general effect of control on the well-being of society. Prerequisite: senior standing in business.
- 475-4. BUDGETING AND SYSTEMS. Budgeting and system as aids in coordinating and directing business operation. Prerequisites: 320, Accounting 253.
- 479-2 to 8. PROBLEMS IN BUSINESS AND ECONOMICS. Application of economic theory to practical business problems. Open to undergraduate majors and graduate minors in business administration or economics. Prerequisite: senior standing in business.
- 480-4. RECENT LABOR LAW DEVELOPMENTS AND PROBLEMS. A legal and social evaluation of the most recent labor law problems and court decisions, including the Taft-Hartley Act and the 1959 amendments, Fair Employment Practice Laws and the Fair Labor Standards Act. Prerequisite: business law or Economics 310 or Government 395 or consent of instructor.
- 481-4. ADMINISTRATIVE MANAGEMENT. An intensive study of the prin-

- ciples of management and their application to the current industrial setting. Lecture and case methods will be used. Prerequisite: 340.
- 483-4. ADVANCED PRODUCTION MANAGEMENT. Internal problems of managerial control of production including recent developments in theory and techniques; case material will be utilized for the development of analytical ability.
- 485-4. PROBLEMS IN PERSONNEL MANAGEMENT. Analysis of problems in personnel administration arising from current developments in organization and techniques; case problems and special reports. Prerequisite: 385.
- 500-2 to 5. READINGS IN BUSINESS ADMINISTRATION. Directed readings in classical and current writings on selected topics. Prerequisite: consent of instructor.
- 501-2 to 5. INDIVIDUAL RESEARCH IN BUSINESS ADMINISTRATION. Directed research in selected areas of business administration.
- 527-3 to 5. SEMINAR IN FINANCE. Current issues and practices in business finance. Each student will select a problem for intensive exploration and report his findings to the class. Prerequisite: 421 or consent of instructor.
- 540-5. HISTORY AND THEORY OF MANAGEMENT. An analytical study of the background and growth of management theory from its beginnings with Taylor and Fayol to the present. Emphasis will be largely on industrial application. Individual reports as well as case and lecture methods will be used. Prerequisite: 481.
- 594-4. SEMINAR IN MANAGEMENT. Study of the most recent developments in a particular area of management. Individual reports, book reports, and survey of current professional literature form the bases of the course. Prerequisite: 340 or consent of instructor.
- 595-4. SEMINAR IN PERSONNEL MANAGEMENT. Study of recent developments in personnel management. Individual reports, book reports, and survey of current professional literature form the bases of the course. Prerequisite: 485 or consent of instructor.
- 596-4. SEMINAR IN PRODUCTION MANAGEMENT. Current theories in production management. Individual reports, book reports, and survey of professional literature form the bases of the course. Prerequisite: 483 or consent of instructor.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

MARKETING

- 438-4. SALES MANAGEMENT. Developing and training a sales force. The different types of sales forces. Managing sales functions; determining salesmen's territories, quotas, compensation. Budget preparation. Developing and implementing the merchandise plan. Prerequisites: 230, 337, or consent of the instructor.
- 451-4. TRAFFIC MANAGEMENT. Primary industrial traffic management functions, including determination of rates, classification, routing, and proper documentation. Consideration given to loss and damage claims, terminal charges, demurrage, reconsignment and conversion, transit

- privileges, warehousing, and packing. Emphasis upon co-operative aspects of traffic management requiring transportation.
- 463-3. ADVERTISING MANAGEMENT. The effective use of advertising by business management. An understanding of what advertising can be expected to accomplish under different sets of marketing factors and products. The selection of advantageous advertising programs under different marketing mixes. Prerequisite: 333.
- 490-4. MARKETING RESEARCH AND ANALYSIS. A nonmathematical development of the basic procedures, methods, and theory underlying analysis of primary and secondary market data. Prerequisites: 230, and one quarter of basic statistics or its equivalent.
- 500-2 to 5. READINGS IN MARKETING. Readings in classical and current writing on selected topics in various areas in the field of marketing.
- 501-2 to 5. INDIVIDUAL RESEARCH IN MARKETING. Directed research in marketing.
- 550-4. GRADUATE SURVEY OF MARKETING. An over-all view of the field of marketing and the field of policy-making decisions. Cases are used to illustrate the theory covered. An accelerated course. Not open to students who have had Marketing 230.
- 560-4. MARKETING POLICIES. The marketing management approach in the determination of policies employed in solving problems in marketing. Prerequisite: 550 or an undergraduate major in marketing.
- 590-4. ADVANCED MARKETING RESEARCH AND ANALYSIS. The development of advanced procedures, methods and theory of quantitative and qualitative analysis of primary and secondary market data. Prerequisite: 490 or consent of instructor.
- 595-3. SEMINAR IN MARKETING. Problems in marketing theory, research, and policy. May be repeated by a student no more than two times. Prerequisite: 230 or 550.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

MATHEMATICS

- 400-3. HISTORY OF MATHEMATICS. An introduction to the development of major mathematical concepts. Particular attention given to the evolution of the abstract concept of space, to the evolution of abstract algebra, to the evolution of the function concept, and to the changes in the concept of rigor in the development of mathematics from 600 B.C. to the present time. Prerequisite: 251 and 320 or consent of instructor.
- 410-4, 411-4, 412-4. STATISTICAL ANALYSIS I, II, III. An introduction to the principles and techniques of statistical inference. Elements of probability theory. Population, sample, and sampling distributions. Estimation and testing hypotheses on means and variances. Analysis of enumeration data. Regression and correlation. Analysis of variance and covariance. Nonparametric methods. Topics in experimental design. For students in fields using statistical methods. Will not normally be counted on a mathematics major.
- 415-2 to 4. NON-EUCLIDEAN GEOMETRY. An introduction to hyperbolic

and elliptic plane geometry and trigonometry. Emphasis given to the nature and significance of geometry and the historical background of non-Euclidean geometry. Occasionally offered as part of the special graduate minor for secondary school teachers. Prerequisite: 252 or consent of instructor.

- 421-3, 422-3. LINEAR ALGEBRA I, II. Linear algebra, including the theory of determinants and systems of linear equations; vector spaces, linear independence, bases, dimension; linear transformations, change of base, similarity; quadratic and Hermitian forms; orthogonal and unitary transformations; triangular and diagonal form; eigenvalues and eigenvectors; normal matrices; nilpotent and idempotent matrices, the spectral theorem. Prerequisite: 253.
- 425-3. THEORY OF NUMBERS. Topics in elementary number theory, including properties of integers and prime numbers, divisibility, Diophantine equations, and congruence of numbers.
- 430-4. PROJECTIVE GEOMETRY. Introduction to the fundamental concepts of projective geometry. Topics usually include the study of conics, polar systems of conics, homogeneous co-ordinates, cross-ratio, harmonic sets, duality, projectivities, and involutions. Prerequisite: 252 or consent of instructor.
- 433-3. THEORY OF POINT SETS. General properties of sets; topology of plane sets, closed sets, and open sets in metric spaces, homeomorphisms and continuous mappings, connectedness. Prerequisite: 253 and six credits in courses numbered 300 or higher, or consent of instructor.
- 440-2 to 4. MODERN ALGEBRA FOR TEACHERS. An introduction to algebra as a logical system, including groups, rings, and fields. Offered as part of the special graduate minor for secondary school teachers. Prerequisite: consent of instructor.
- 442-3. SURVEY OF GEOMETRY. A survey of geometry, including projective geometry, topology, etc. Offered as part of the special graduate minor for secondary school teachers. Prerequisite: consent of instructor.
- 443-4. ANALYTIC METHODS IN GEOMETRY. An investigation into the use of analytic methods in geometry, with particular attention to Cartesian plane and solid geometry. Synthetic and analytic methods contrasted. Prerequisite: consent of chairman.
- 449-3 to 4. TEACHING MODERN ALGEBRA. Topics in modern algebra and their implications for the secondary school mathematics program. Prerequisite: consent of instructor.
- 452-3, 453-3, 454-3. ADVANCED CALCULUS. The fundamental concepts of analysis: limits, continuity, differentiation, and integration. Major topics include partial differentiation, vector analysis, Riemann-Stieltjes integrals, multiple integrals, infinite series, improper integrals, uniform convergence, Fourier series, and line and surface integrals. Prerequisite: 253.
- 455-4. PROGRAMMING FOR DIGITAL COMPUTERS. (Same as Management 455.) An intensive course in digital computer programming. Topics include computer organization and characteristics, machine language coding, flow charts, subroutines, symbolic coding, and compiler systems. Equipment of the University's Data Processing and Computing Center is used for applications. Prerequisite: consent of instructor.
- 460-4. MODERN GEOMETRY. Advanced topics in Euclidean geometry by the synthetic method. Topics including the nine-point circle, Simson line,

theorems of Ceva and Menelaus, coaxal circles, harmonic section, poles and polars, similitude, and inversion. Prerequisite: 20 hours of college mathematics.

- 475-3. **NUMERICAL METHODS.** An introduction to approximation methods including finite differences and interpolation; numerical differentiation and integration; curve fitting, numerical solution of algebraic, transcendental, and differential equations. Prerequisites: 305, or 253 and consent of instructor.
- 480-3, 481-3, 482-3. **PROBABILITY AND STATISTICS.** An introduction to probability theory and the mathematical methods used in obtaining procedures for various problems of statistical inference. Topics include the algebra of probabilities, discrete and continuous distributions, limit theorems, sampling distributions, principles of statistical estimation, and testing hypotheses. Prerequisite: 253.
- 501-3, 502-3, 503-3. **REAL VARIABLES.** A basic course in mathematical analysis. The real number system; fundamental theorems in limits and continuity; open, closed, compact, and connected sets in Euclidean and metric spaces; the Riemann and the Riemann-Stieltjes integrals and functions of bounded variation; infinite series; uniform continuity; uniform convergence of series and improper integrals; arcs and curves; implicit function theorem; multiple integrals. The third quarter presents the general theory of measure and integration from an abstract point of view. Additive classes of sets, Borel sets, measurability, measure and outer measure; integrable functions, convergence theorems; absolute continuity and the Radon-Nikodym theorem; Fubini's theorem. Prerequisite: 454.
- 510-4. **FOUNDATIONS OF MATHEMATICS.** A critical survey of the logical basis of mathematical systems. Deductive processes, mathematical proof theory, axiomatics, nature of model systems, principles of theory construction, views concerning the nature of mathematics. Prerequisites: 253, consent of instructor.
- 520-4, 521-4. **MODERN ALGEBRA.** Intended to display some of the richness of algebra when mathematical systems other than the traditional one based upon the real numbers are considered. Abstract theory of groups, rings, and fields, with particular attention to examples from permutation groups, matrices, vector spaces, and polynomial and other function spaces; rational numbers and fields, complex numbers, unique factorization, algebraic number fields. Prerequisite: 321.
- 530-3 to 6. **POINT SET TOPOLOGY.** Topological spaces; denseness, category; open, closed sets, Borel sets; separation axioms; subspaces; continuity; lattice of topologies; countability axioms; connectedness, compactness, local properties; regularity to complete normality; Hilbert space, metrizable spaces; extension theorems; well-ordering; product spaces. Prerequisite: 433 or 502.
- 535-4. **ALGEBRAIC PLANE CURVES.** Prerequisite: 253.
- 536-3. **DIFFERENTIAL GEOMETRY.** Curvature, torsion, the Frenet formulas, and intrinsic equations of curves in three dimensional Euclidean space; applications to kinematics. Curves on a surface; first and second fundamental forms; normal sections and Meusnier's theorem; mean and total curvature. Prerequisite: 454.
- 540-4. **GROUPS AND LINEAR TRANSFORMATIONS.** A study of groups

- with their connection with the movements of regular plane figures, matrices, vectors, determinants with their interpretation and use in analytic geometry, and ruler and compass constructions. Prerequisite: 440 or equivalent.
- 541-2 to 4. SETS AND PROBABILITY. The elements of probability, with some applications to social sciences. Offered as part of the special graduate minor for secondary school teachers. Prerequisite: consent of instructor.
- 542-2 to 4. ELEMENTARY FUNCTIONS FROM AN ADVANCED STAND-POINT. Analysis of properties of algebraic, trigonometric, exponential, and logarithmic functions using contemporary notion of function. Prerequisite: consent of department chairman.
- 544-3. FUNDAMENTAL CONCEPTS OF CALCULUS. A careful study offered as part of the special graduate minor for secondary school teachers. Prerequisite: consent of instructor.
- 550-1 to 10. SEMINAR. Supervised study and preparation of reports on assigned topics. Reports presented for class discussion. 550A – Seminar in Algebra; 550B – Seminar in Geometry; 550C – Seminar in Analysis; 550D – Seminar in Probability and Statistics; 550E – Seminar in Mathematics Education. Prerequisite: consent of instructor.
- 555-3, 556-3. COMPLEX VARIABLES. A thorough treatment of classical analytic function theory including the Cauchy-Riemann equations, conformal mapping, Riemann mapping theorem, Cauchy-Goursat theorem, calculus of residues, analytic continuation, entire functions, gamma and beta functions, Bessel's and Legendre's equations, elliptic integrals. Prerequisite: 454.
- 595-1 to 10. SPECIAL PROJECT. An individual project, including a written report. 595A in Algebra; 595B in Geometry; 595C in Analysis; 595D in Probability and Statistics; 595E in Mathematics Education.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

MICROBIOLOGY

- 401-2 to 6. SEMINAR. Prerequisites: 100 and 201, or 301.
- 402-5. GENETICS. See Zoology 401 for course description.
- 403-5. MEDICAL BACTERIOLOGY. A general survey of the mechanisms of infection, epidemiology, and immunity and the specific application of these principles to the symptomatology, diagnosis, treatment, and control of the more common bacterial, rickettsial, and viral infections of man. 3 hours lecture and 4 hours laboratory. Prerequisite: 201 or 301 or equivalent.
- 406-5. PROTOZOOLOGY. (Same as Zoology 406.) Taxonomy, cytology, reproduction and physiology of unicellular animals. Laboratory methods of culturing and studying. Prerequisite: one year of zoology.
- 422-5. MICROBIOLOGY OF FOODS. The relationships of microorganisms to the preparation and preservation of foods with consideration of the laws governing sanitation, chemical preservatives, and fair dealing of the food producer. 3 hours lecture, 4 hours laboratory. Prerequisite: 201 or 301.
- 423-5. INDUSTRIAL FERMENTATION. The application of the chemical activities of microorganisms to the industrial production of beverages,

- foods, antibiotics, and various commercial chemicals. 3 hours lecture, 4 hours laboratory. Prerequisites: 201 or 301 and organic chemistry.
- 424A-2 to 3. SOIL MICROBIOLOGY. (Same as Plant Industries 424A.) Numbers, characteristics, and biochemical activities of soil microorganisms, with particular consideration of their role in the transformations of organic matter, nitrogen, and minerals as related to soil fertility and management. Lectures. Prerequisite: Botany 101.
- 424B-2. SOIL MICROBIOLOGY LABORATORY. (Same as Plant Industries 424B.) Experiments designed to determine numbers, and to study the characteristics and biochemical activities of the soil microflora as related to fertility. Prerequisites: 100 or 301, 424A.
- 425-3. BIOCHEMISTRY AND PHYSIOLOGY OF MICROORGANISMS. The chemical basis of physiological functions in microbial cells with emphasis on the pathways of metabolism common to all living things. 3 hours lecture. Prerequisites: 201 and organic chemistry.
- 426-2. BIOCHEMISTRY AND PHYSIOLOGY OF MICROORGANISMS. 4 hours laboratory. Prerequisite or corequisite: 425.
- 441-5. VIROLOGY. Properties, cultivation and titration of viruses and rickettsiae; cellular infection, multiplication and liberation of virus; immunological reactions and serological identification; haemagglutination and interference phenomena. Consideration of selected viral and rickettsiae diseases of animals. 3 hours lecture, 4 hours laboratory. Prerequisite: 403.
- 451-5. IMMUNOLOGY. Natural and acquired immunity; antigens, antibodies and antigen-antibody reactions; hypersensitivity; practical use of immunity and hypersensitivity. 4 hours lecture, 4 hours laboratory. Prerequisite: 403.
- 500-2 to 6. SEMINAR.
- 501-2. GENETICS OF MICROORGANISMS. The general principles of genetic analysis with accent on tetrad analysis of yeast. 2 hours lecture.
- 503-2. CYTOLOGY OF MICROORGANISMS. Problems involved in the behavior of chromosomes at meiosis with special consideration of genetical data. 2 hours lecture.
- 504-5. METHODS OF MICROBIOLOGICAL RESEARCH. The recognition and plan of attack upon unsolved problems in microbiology. 3 hours lecture.
- 506-2. BIBLIOGRAPHICAL METHODS IN MICROBIOLOGY. Methods of communication of information in microbiology. 1 hour lecture, 2 hours laboratory.
- 511, 512, 513-3 to 15. RESEARCH.
- 525-3. BIOCHEMISTRY AND PHYSIOLOGY OF MICROORGANISMS. A continuation of 425.
- 526-2. BIOCHEMISTRY AND PHYSIOLOGY OF MICROORGANISMS. A continuation of 426. 4 hours laboratory. Prerequisite or corequisite: 525.
- 528-1 to 10. READINGS IN MICROBIOLOGY. Supervised readings for qualified graduate students.
- 550-4. MICROBIOLOGY FOR HIGH SCHOOL TEACHERS. Principles of microbiology with emphasis on the relation of the microbial world to plants and animals. Information regarding materials and methods applicable to high school biology courses. 2 lectures and 2 laboratory periods or field trips per week. Offered only for N.S.F. institutes.

- 551-2. INTERMEDIATE MICROBIOLOGY FOR HIGH SCHOOL TEACHERS. Continuation of 550 with emphasis on recent developments in microbial genetics, aspects of medical bacteriology, immunology, and virology. Two lectures and occasional demonstrations.
- 552-1. SEMINAR IN BIOLOGICAL SCIENCES. Discussion of topics in biology of particular interest to high school biology teachers.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.
- 600-3 to 48. DISSERTATION. Minimum of 36 hours to be earned for the Ph.D. degree.

MUSIC

- 411-3. SYMPHONIC LITERATURE. Development of the symphony and the symphonic poem to 1900.
- 412-3. CHORAL LITERATURE. The literature of the larger vocal forms such as the cantata and oratorio to 1900.
- 413-3. CHAMBER MUSIC LITERATURE. Chamber music literature from the Renaissance to the present.
- 441-2. SIXTEENTH-CENTURY COUNTERPOINT. Species counterpoint and creative writing in the style of Palestrina and his contemporaries. Prerequisite: 207.
- 442-2. EIGHTEENTH-CENTURY COUNTERPOINT. Analysis and creative writing in the contrapuntal-harmonic technique of Bach and his contemporaries. Prerequisite: 207.
- 443-2. CANON AND FUGUE. Analysis and creative writing of the larger imitative forms. Prerequisite: 442.
- 451-2. THE TEACHING OF GENERAL CLASSROOM MUSIC IN THE JUNIOR AND SENIOR HIGH SCHOOL.
- 455-4. WORKSHOP FOR ELEMENTARY MUSIC EDUCATION.
- 461-2. TEACHING TECHNIQUES AND MATERIALS FOR THE INTERMEDIATE LEVELS. (Piano or Voice.) Designed to meet the needs of piano or voice majors in the Bachelor of Music or the Master of Music degree programs in which the problems of private studio teaching and college-level teaching are discussed.
- 462-2. TEACHING TECHNIQUES AND MATERIALS FOR THE ADVANCED STUDENT. Continuation of 461.

Candidates for the Master of Music or Master of Music Education degree who wish to choose applied music courses as *electives* will take the 470-level course in their major instrument or voice for two hours of credit per quarter. Applied music *majors* in the master of music curriculum will take the 570-level course in their major instrument or voice for four hours of credit per quarter. These are considered artist-level courses, and admission to them and to the degree program must be obtained from the chairman of the department after passing a jury placement examination.

In both the 470 and 570 series of courses the emphasis is upon the literature of the instrument or voice with the assumption that techniques will have largely been mastered at the undergraduate level.

For specific repertoire requirements in each course, see the chairman of the Department of Music.

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| 471-2 to 8. PRIVATE PIANO. | 474D-2 to 8. PRIVATE BASSOON. |
| 472-2 to 8. PRIVATE VOICE. | 474E-2 to 8. PRIVATE SAXOPHONE. |
| 473A-2 to 8. PRIVATE VIOLIN. | 475A-2 to 8. PRIVATE TRUMPET. |
| 473B-2 to 8. PRIVATE VIOLA. | 475B-2 to 8. PRIVATE FRENCH |
| 473C-2 to 8. PRIVATE CELLO. | HORN. |
| 473D-2 to 8. PRIVATE STRING BASS. | 475C-2 to 8. PRIVATE BARITONE. |
| 474A-2 to 8. PRIVATE FLUTE. | 475D-2 to 8. PRIVATE TROMBONE. |
| 474B-2 to 8. PRIVATE OBOE. | 475E-2 to 8. PRIVATE TUBA. |
| 474C-2 to 8. PRIVATE CLARINET. | 476-2 to 8. PRIVATE ORGAN. |

- 501-3. INTRODUCTION TO GRADUATE STUDY IN MUSIC. Basic bibliographical and research techniques in music theory, literature, and education.
- 502-3 to 9. HISTORY AND ANALYSIS OF MUSICAL STYLE. Style in relation to evolution of musical materials.
- 510-3. HISTORY OF PERFORMANCE PRACTICE. Tempo, pitch, and techniques of performance as they relate to musical literature and instruments of the various periods in music history.
- 512-3. HISTORY OF OPERA. The development of opera as a form, with a detailed study of operas since 1600.
- 515-3. TWENTIETH-CENTURY LITERATURE. A survey of contemporary music of Russia, Western Europe, and the Americas in its relation to sociological, political, and cultural developments.
- 518-3. PEDAGOGY OF MUSIC LITERATURE. Principles of teaching music literature and music appreciation courses at the college level.
- 520-3. AMERICAN MUSIC. The development of music in America from colonial days to present.
- 522-3. SEMINAR IN MUSIC HISTORY-LITERATURE. Advanced study in special periods of music history-literature. Offered on demand.
- 530A-3 to 9. MUSIC HISTORY.
- 530B-3 to 9. MUSIC LITERATURE.
- 530C-3 to 9. MUSIC THEORY.
- 531-2 to 9. ADVANCED COMPOSITION. Composition in the larger forms for solo and ensemble performance. Prerequisites: 314, 442, and consent of instructor. Required of all theory-composition majors three hours per term; elective credit for majors in other areas.
- 535-3. CONTEMPORARY IDIOMS. Techniques of composition developed during the twentieth century by composers of Europe and America.
- 545-3 to 9. PHILOSOPHIES OF MUSIC THEORY. Includes an orientation of the philosophies of theory to the problems of pedagogy. Required of all theory-composition majors.
- 550-2 to 4. ORGANIZATION AND ADMINISTRATION OF THE MUSIC EDUCATION PROGRAM—ELEMENTARY. Grades Kindergarten through 6.
- 551-2 to 4. ORGANIZATION AND ADMINISTRATION OF THE MUSIC EDUCATION PROGRAM—SECONDARY. Grades 7 through 12.
- 553-3. SEMINAR IN CHORAL MATERIALS AND TECHNIQUES.
- 554-3. SEMINAR IN INSTRUMENTAL MATERIALS AND TECHNIQUES.
- 556-2 to 6. ADVANCED CONDUCTING. Problems in reading symphonic scores and interpretation. Laboratory conducting of larger University ensembles.

- 560-2 to 3. SEMINAR IN MUSIC EDUCATION. Trends, current practices, philosophies of music education.
- 566-1 to 4. INSTRUMENTAL ENSEMBLE. Participation in a chamber or large ensemble for purposes of studying and performing literature in the field of the major instrument other than solo literature.
- 567-1 to 4. VOCAL ENSEMBLE. Participation in a chamber or large ensemble for purposes of studying and performing literature in the field of the vocal music other than solo literature. Includes madrigal groups, choral ensembles, women's chorus, etc.
- 568-2 to 8. OPERA WORKSHOP. An intensive course in opera for voice majors, including the study and public performances of scenes and entire operas.
- Applied music majors in the master of music curriculum will take the 570-level course in their major instrument or voice for four hours of credit per quarter. These are considered artist-level courses, and admission to them must be obtained from the chairman of the Department of Music. Emphasis is placed upon the literature of the instrument or voice with the assumption that techniques will have largely been mastered at the undergraduate level.
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| 571-4 to 16. PRIVATE PIANO. | 574D-4 to 16. PRIVATE BASSOON. |
| 572-4 to 16. PRIVATE VOICE. | 574E-4 to 16. PRIVATE SAXOPHONE. |
| 573A-4 to 16. PRIVATE VIOLIN. | 575A-4 to 16. PRIVATE TRUMPET. |
| 573B-4 to 16. PRIVATE VIOLA. | 575B-4 to 16. PRIVATE FRENCH |
| 573C-4 to 16. PRIVATE CELLO. | HORN. |
| 573D-4 to 16. PRIVATE STRING | 575C-4 to 16. PRIVATE BARITONE. |
| BASS. | 575D-4 to 16. PRIVATE TROMBONE. |
| 574A-4 to 16. PRIVATE FLUTE. | 575E-4 to 16. PRIVATE TUBA. |
| 574B-4 to 16. PRIVATE OBOE. | 576-4 to 16. PRIVATE ORGAN. |
| 574C-4 to 16. PRIVATE CLARINET. | |
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

PHILOSOPHY

- 406-4. PHILOSOPHY OF BIOLOGY. Leading concepts of biological sciences: species, evolution, life, organism and part, etc. Abstract ideas of biology are related, wherever possible, to specific experiments recorded in scientific literature. Prerequisites: 300 or 320, and three laboratory or field courses in the biological sciences or consent of instructor.
- 415-3. LOGIC OF THE SOCIAL SCIENCES. Logical and epistemological examination of the social studies as types of knowledge. Basic problems in philosophy of science with major emphasis upon social science: relationship of theory to fact, nature of induction, nature of causal law, testability, influence of value judgments, etc. Intended for students with considerable maturity in a social science or in philosophy.
- 420-4. ADVANCED LOGIC. A careful study of symbolic and discursive systems of logic: Aristotle, Spinoza, Boole, Whitehead, and Johnson. Prerequisites: 320 and consent of instructor.
- 422-3. MATHEMATICAL LOGIC I. Matrix and set theory, axiomatic development of the propositional calculus. Many-valued logics, modal logics; related problems. Prerequisites: 6 hours of philosophy, including 320 or 6 hours of Mathematics courses 300 or higher or consent of instructor.

- 423-3. MATHEMATICAL LOGIC II. The predicate calculus and related problems. Prerequisite: 422 or consent of instructor.
- 424-3. LOGIC OF THE EXACT SCIENCES. Critical study of the technical and philosophical problems associated with formal logic and its uses as a tool for model construction, for formalizations, reconstructions, and as an image of rational thought. Prerequisites: 422 and 423, or consent of instructor.
- 441-4. PHILOSOPHY OF POLITICS. Some of the central problems of modern political life, such as sovereignty, world government, authority and consent, the relations of economics and social studies to political theory. Prerequisite: 140 or 340 or consent of instructor.
- 443-4. PHILOSOPHY OF HISTORY. Classical and contemporary reflections on the nature of history and historical knowledge as the basis for dealing with the humanities. Prerequisite: consent of instructor.
- 460-4. ADVANCED PHILOSOPHY OF ART. The definition of art, its relations to science, culture, and morals; the various types of art defined. Familiarity with at least one of the fine arts is assumed. Prerequisites: 160 or 360, and six courses in music, painting, sculpture, literature, or drama.
- 477-4. LATIN AMERICAN PHILOSOPHY. A survey of philosophic thought in Latin America from colonial times through nineteenth century positivism and the reactions against it, up to recent trends. Reading of original texts in English translations. Discussions and reports.
- 478-4. SEMINAR IN LATIN AMERICAN THOUGHT. Investigation of research topics connected with Latin American thought during the nineteenth and twentieth centuries in the fields of government, social sciences, education, literature, and philosophy. Individual studies and reports. (Same as Spanish 478.) Prerequisite: consent of instructor.
- 490-2 to 12. SPECIAL PROBLEMS. Hours and credits to be arranged. Courses for qualified seniors and graduates who need to pursue certain topics further than regularly titled courses permit. Special topics announced from time to time. Students are invited to suggest topics for individual study and papers or for group study. Consent of instructor in all cases required.
- 500-2 to 4. SEMINAR IN METAPHYSICS. Study of recent writers and current problems in metaphysics with the intent of familiarizing the student with the traditional problems of the area.
- 501-2 to 4. SEMINAR IN THE PHILOSOPHY OF RELIGION. Analysis of a selected problem in philosophical theology or the psychology of religion, or of the work of a particular thinker. Recent seminars have been on Paul Tillich and Henry Nelson Wieman.
- 530-2 to 4. SEMINAR IN THEORY OF KNOWLEDGE. Examination of a contemporary writer or problem in epistemology. Special emphasis is given to the problem of the reliability and structure of scientific knowledge.
- 551-4, 552-4, 553-4. PHILOSOPHIC PROBLEMS OF CONTEMPORARY CIVILIZATION. An examination of the crisis in contemporary civilization. The reconstruction of ideas and values involved and an analysis of crucial problems in terms of this intellectual reconstruction.
- 581-2 to 4. SEMINAR IN PLATO. A thorough study of several of the dialogues. Lectures on the system of Plato as a whole, discussions and reports on the readings.

- 582-2 to 4. SEMINAR IN ARISTOTLE. The philosophic ideas of Aristotle. Intensive reading of several texts, illustrating widely varied portions of his thought.
- 586-2 to 4. SEMINAR IN SPINOZA. Analysis of the *Improvement of the Understanding* and the *Ethics*. Lectures relating Spinoza to the medieval tradition and to his contemporaries. Discussions and reports.
- 588-2 to 4. SEMINAR IN KANT. The three great *Critiques* in their relation to the development of Kant's total philosophy. Intensive study of one of the *Critiques*.
- 589-2 to 12, 590-2 to 12. GENERAL SEMINAR. For students having special interests in the history of philosophy and the original systematic development of philosophic ideas. Prerequisite: consent of instructor.
- 591-1 to 5. READINGS IN PHILOSOPHY. Supervised readings for qualified students. Consent of instructor required.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

PHYSICAL EDUCATION

- 400-4. EVALUATION IN PHYSICAL EDUCATION. Historical background of measurement in physical education; selection and evaluation of contemporary testing devices; structure and use of tests; administering the testing program; and interpretation and application of results. Fulfills the tests and measurements course requirements for the Master of Science in Education degree.
- 402-3. ORGANIZATION AND ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL ACTIVITIES. Planning intramural programs of sports; planning and co-ordinating extramural activities commonly associated with physical education.
- 403-4. THE ADAPTATION OF PHYSICAL AND RECREATIONAL ACTIVITIES TO THE HANDICAPPED INDIVIDUAL. Recognition of postural deviations; devising and planning programs for the physically atypical.
- 404-4. THE TEACHING OF SPORTS. Teaching methods, officiating, organization, safety precautions, and selecting equipment for sports.
- 405-4. CURRENT THEORIES AND PRACTICES IN THE TEACHING OF DANCE. History and evolution of dance; place of dance in education.
- 406-4. BASIC CONCEPTS OF PHYSICAL EDUCATION. The place of physical education in the school program, and the concepts underlying the program. (Required of all students not presenting the undergraduate courses 354 or 340.)
- 408-2 to 4. WORKSHOP—PHYSICAL FITNESS: ITS ROLE AND APPLICATION IN EDUCATION. Improvement of programs and teaching techniques involved in the development of various aspects of physical fitness. Units on postural status; body weight control; tension factors, causes, and control; exercise tolerance; and general body mechanics and control.
- 420-3. PHYSIOLOGICAL EFFECTS OF MOTOR ACTIVITY. The general physiological effect of motor activity upon the structure and function of body organs; specific effect of exercise on the muscular system. Prerequisite: Physiology 209 or equivalent.

- 500-4. **TECHNIQUES OF RESEARCH.** Critical analysis of research literature; study of research methods and planning research studies. Prerequisite: 400 or concomittant registration in 400.
- 501-4. **CURRICULUM IN PHYSICAL EDUCATION.** Principals and procedures for curriculum construction and revision; criteria for selecting activities and judging outcomes and the place of the physical education course of study within the total curriculum.
- 502-4. **FOUNDATIONS OF MOTOR SKILLS.** Application of physiological, kinesiological, and mechanical principles to intelligent control of large-muscle activities. Recommended background: a course in kinesiology.
- 503-4. **SEMINAR IN PHYSICAL EDUCATION.** The course content and its procedures center around group discussions of controversial issues that currently exist in physical education and provide opportunities for practice in seeking unbiased solutions to professional problems.
- 504-4. **PROBLEMS IN PHYSICAL EDUCATION.** Planning, conducting, and reporting original research studies. Prerequisite: 500 or equivalent.
- 507-4. **SCIENTIFIC BASIS OF ATHLETIC TRAINING.** Study of the factors which affect maximum human performance in athletic competition. The knowledge and application of scientific principles in preparing the athlete for maximum performance, in shielding him from possibly damaging sequelae, and in restoring him to maximum performance after injury. Consideration of the kinesiological, physiological, and behavioral factors in athletics. Designed to increase the effectiveness of physical education personnel in teaching and coaching athletes.
- 508-3. **ADMINISTRATION OF INTERSCHOOL ATHLETICS.** Existing problems in interschool athletics, with particular attention to secondary school athletic programs.
- 509-4. **SUPERVISION OF HEALTH AND PHYSICAL EDUCATION.** The functions of supervision in physical and health education; basic principles and methods of supervision. Techniques and methods for increasing the effectiveness of the program at the elementary and high school levels.
- 510-4. **CURRENT TRENDS IN MOTOR EDUCATION FOR THE KINDERGARTEN-PRIMARY CHILD.**
- 510A-2, 510B-2. **MOTOR DEVELOPMENT.** (A) Early patterns of motor behavior and the development of physical skills in childhood. (B) The development of physical abilities during adolescence. Individual differences in motor proficiency and factors affecting the acquisition of motor skills. Concepts of motor learning with inferences for improving instructional practices.
- 525-1 to 6. **READINGS IN PHYSICAL EDUCATION.** Supervised reading in selected subjects. Prerequisite: consent of instructor and chairman of department. Open only to last-quarter seniors and graduate students.
- 599-2 to 9. **THESIS.** Minimum of 5 hours to be counted toward a master's degree.
- 600-3 to 48. **DISSERTATION.** Minimum of 36 hours to be earned for the Ph.D. degree.

PHYSICS

- 402-5. **CONTEMPORARY PHYSICS.** A survey course in atomic and nuclear

- physics. Offered principally for high school teachers who wish a refresher course covering recent developments in physics. Prerequisites: 206, 207, 208; or 211, 212, 213; or consent of instructor.
- 404-3. INTRODUCTION TO STATISTICAL MECHANICS. A brief treatment of the kinetic theory of gases; introduction of phase spaces and ensemble theory. Shows the connection between mechanical and thermodynamic concepts and obtains a statistical interpretation of thermodynamic processes. Prerequisites: 302; 304 or consent of instructor.
- 405-5. ELECTRONICS. Alternating current theory, including circuit analysis by the use of complex numbers; a study of various types of electronic tubes and electronic devices, and their use in circuits which are frequently encountered in experimental physics, including power supplies, amplifiers, oscillators, electronic meters, electronic relays, and scalars. Prerequisites: 305, 306.
- 410-5. PHYSICAL OPTICS. A theoretical and experimental study of light as electromagnetic energy; its production, detection, and measurement. Prerequisites: Mathematics 253 and three advanced physics courses.
- 413-4. PRINCIPLES OF MODERN PHYSICS II. A continuation of 313 in which the techniques of wave mechanics and perturbation theory are developed; applications include the harmonic oscillator, particle in a box, rigid rotator, the hydrogen atom and molecule, multi-electron atoms. Prerequisite: 313 or consent of instructor.
- 414-5. RECENT DEVELOPMENTS. Emphasis is placed on developments in the field of nuclear physics. Prerequisite: 314.
- 420-2 to 5. SPECIAL PROJECTS I. Each student is assigned a definite investigative topic. Adapted to advanced undergraduate students. Prerequisites: 301, 305, 306.
- 421-2 to 5. SPECIAL PROJECTS II. A continuation of 420. Credit in 420 and 421 not to exceed nine hours. Prerequisite: 420.
- 425-5. ELECTRICAL PHENOMENA IN GASES. Excitation and ionization of gas atoms; diffusion of ions; space charge; glow and arc discharges. Prerequisites: 305, 306.
- 430-2. PHYSICAL LITERATURE. A study of source materials in the field of physics. Also library search on special subjects. Prerequisite: integral calculus, three advanced physics courses, and one year of German.
- 450-5. INTRODUCTION TO SOLID-STATE PHYSICS. A study of the fundamentals of solid-state physics including classification of solids, interatomic and intermolecular forces, lattice energies, specific heats, lattice dynamics, free electron theory of metals, lattice defects, color centers, luminescence, magnetic materials, radiation damage, transport in ionic crystals, Fermi-Dirac statistics, Fermi distribution, and semiconductors. Prerequisites: 303, 305, 306, 314.
- 501-5. METHODS OF THEORETICAL PHYSICS I. A survey of classical theoretical physics, with emphasis on advanced dynamics. Vector analysis used throughout. Prerequisites: 301, 302, 305, 306, Mathematics 306.
- 502-5. METHODS OF THEORETICAL PHYSICS II. A continuation of 501, with emphasis on hydrodynamics, thermodynamics, statistical mechanics, and kinetic theory of gases. Prerequisite: 501.
- 503-5. METHODS OF THEORETICAL PHYSICS III. A continuation of 502, with emphasis on electrodynamics including radiation theory. Prerequisite: 502.

- 507-5. **ADVANCED ELECTRICAL THEORY I.** Advanced study of the theory of electrostatics, dielectrics, conductors, non-ohmic circuits elements, chemical, thermal, and photoelectric effects, and conduction in gases. The vector notation introduced at the beginning and used throughout. Prerequisites: 305, 306, Mathematics 306.
- 508-5. **ADVANCED ELECTRICAL THEORY II.** Prerequisite: 507.
- 511-4, 512-4, 513-4. **MATHEMATICAL METHODS OF PHYSICS I, II, III.** Vector analysis and curvilinear co-ordinate systems, partial differential equations of classical physics, expansions in orthogonal functions, boundary value problems, introduction to complex analysis, contour integration, linear transformations, and matrices, eigenvalue problems, integral equations and transforms, Schrödinger's equation and elementary quantum mechanics. Prerequisites: 314, Mathematics 306.
- 520-2 to 5. **SPECIAL PROJECTS.** Each student assigned a definite investigative topic requiring considerable resourcefulness and initiative. Prerequisite or corequisite: 501.
- 521-2 to 5. **ADVANCED RESEARCH.** A continuation of 520. Prerequisite: 520.
- 590-1 to 9. **RESEARCH IN PHYSICS (THESIS).** 1-5 hours each term. Prerequisite or corequisite: 501. Minimum of 5 hours counted toward a master's degree.

PHYSIOLOGY

- 401-2 to 6. **SEMINAR.** Open to graduates and undergraduates with adequate training in physiology, physics, and chemistry.
- 410-5, 411-5, 412-5. **ADVANCED ANATOMY.** Dissection of the human body. Primarily for majors in physiology and other biological sciences. Not a premedical course. 2 hours lecture, 6 hours laboratory.
- 414-4. **PHYSIOLOGY OF SPEECH.** The anatomy and physiology of the vocal apparatus. Primarily for majors in speech pathology. 3 hours lecture, 2 hours laboratory.
- 415-4, 416-4. **EXPERIMENTAL ANIMAL SURGERY I, II.** Preparation of animals for surgery, anesthesia, instruments, care of animal quarters, selected exercises. 416 may be elected independently of 415. 2 hours lecture, 4 hours laboratory.
- 417-3. **PRINCIPLES OF PHARMACOLOGY.** Action of drugs and other chemical substances upon the living organism. Physiological and biochemical events resulting from the action of drugs. Pharmacodynamics, chemotherapy, toxicology, and therapeutics. Prerequisites: basic courses in chemistry and biological sciences. 2 hours lecture, 2 hours laboratory.
- 418-3. **PRINCIPLES OF PHARMACOLOGY.** Continuation of 417. 2 hours lecture, 2 hours laboratory.
- 420-3. **PHYSIOLOGY OF EXERCISE.** The effects of activity upon the human organism. 3 hours lecture and demonstrations.
- 421-1 to 6. **READINGS IN CURRENT PHYSIOLOGICAL LITERATURE.** Supervised reading in current topics. Open only by permission.
- 430-4, 431-4, 432-4. **GENERAL (CELLULAR) PHYSIOLOGY.** The nature and mechanism of the living cell. Chemical and physical aspects of vital activity. Required for majors in physiology. Recommended for students

- interested in biochemistry and biophysics. 3 hours lecture, 2 hours laboratory.
- 433-4. COMPARATIVE PHYSIOLOGY. Fundamental physiological processes and the manner in which they vary in various groups of animals. Recommended for majors in physiology and for students in other biological physical science. 2 hours lecture, 2 hours laboratory.
- 440-3. ELECTRON MICROSCOPY. Lectures, demonstrations, and practical experience with the electron microscope. Fundamentals of specimen preparation. Open to students with advanced knowledge of any natural or physical science. 2 hours lecture, 2 hours laboratory.
- 450-4 to 16. SPECIAL PROBLEMS IN PHYSIOLOGY. Selected problems in various aspects of physiology. 8 hours laboratory. Open only by permission.
- 455-2. PHYSIOLOGICAL PROBLEMS IN REHABILITATION. Designed specifically for the rehabilitation counseling program. Problems of the handicapped. Not for physiology majors. 2 hours lecture.
- 460-4, 461-4, 462-4. MAMMALIAN PHYSIOLOGY. Function and biochemical organization in mammals, especially man. Open to students with adequate courses in biological sciences and chemistry. Course 460: blood, circulation, respiration. Course 461: digestion, excretion, endocrines. Course 462: nervous system sense organs. 3 hours lecture, 4 hours laboratory.
- 470B-3. RESEARCH FOR BIOLOGY TEACHERS. Laboratory experience in research methods for teachers of biology and general science.
- 500-1 to 6. ADVANCED SEMINAR. One meeting per week. 1 credit per quarter. Formal presentation of research and/or current literature in physiology. Required of all majors each quarter in residence.
- 519-3. EXPERIMENTAL PHARMACOLOGY. Exercises to familiarize the student with advanced physiological investigation. Prerequisites: strong background in chemistry and the biological sciences. 1 hour discussion, 4 hours laboratory.
- 520A-4, 520B-4, 520C-4. PHYSIOLOGICAL TECHNIQS. (1) Analysis of protoplasmic components of tissue extracts under a variety of physiological conditions using chemical procedures. (2) Gas analysis and metabolic methods in physiology. (3) Instrumentation for the recording of the physiologic activity of living tissues and organs. Use of channel recorders. Prerequisite: undergraduate major in any of the biological or physical sciences. 2 hours lecture, 4 hours laboratory.
- 530A-4, 530B-4. ADVANCED CELLULAR PHYSIOLOGY. A detailed consideration given to basic physiological processes such as permeability, active transport, metabolic cycles, energy transformations, and bioelectric potentials. Selected projects undertaken by the students in the laboratory. Prerequisite: 430 or equivalent. 2 hours lecture, 4 hours laboratory.
- 540A-4, 540B-4. ADVANCED COMPARATIVE PHYSIOLOGY. A comparative study of the physiological systems in animals. Subjects such as nitrogen metabolism, carbohydrate metabolism, and water balance of organisms will be given. 2 hours lecture, 4 hours laboratory. Prerequisites: 430 or 433 or equivalent, and organic chemistry.
- 550-3. RADIATION BIOLOGY. Theory and specific applications of isotopes in physiology emphasized, and opportunity given to learn how to handle radioactive materials in the laboratory. 2 hours lecture, 2 hours labora-

tory. Prerequisite: 430 or equivalent, general physics, biochemistry or equivalent.

599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

PLANT INDUSTRIES

- 401-4. SOIL PHYSICS. Physical properties of the soil; factors affecting them, their measurements, evaluation, and influence in determination of soil productivity. Prerequisite: 301.
- 407-3 to 4. FERTILIZERS AND SOIL FERTILITY. Sources, manufacture, and use of fertilizer materials; effects of various fertilizers on soils and crops; fertility maintenance and soil management. Prerequisite: 301.
- 408-4. ADVANCED CROP PRODUCTION. Ecological and physiological considerations used in the interpretation of crops research data, with emphasis on modern developments and trends in production and research of major agronomic crops. Prerequisite: 209.
- 415-3. PLANT BREEDING. General principles and methods employed in the breeding of horticultural, agronomic, and forest plants. Emphasis on methods of selection, breeding, and testing; use of polyploidy; heterosis; male sterility; combining ability; and plot technique. Prerequisite: 315 or Zoology 401.
- 419-4. FORAGE CROP MANAGEMENT. Forage production and utilization; forage crop characteristics, breeding and ecology; grasslands as related to animal production, soil conservation, crop rotation, and land use. Prerequisite: 209.
- 424A-3. SOIL MICROBIOLOGY. (Same as Microbiology 424A.) Numbers, characteristics, and biochemical activities of soil microorganisms, with particular consideration of their role in the transformations of organic matter, nitrogen, and minerals as related to soil fertility and management. Lectures. Prerequisite: Botany 101.
- 424B-2. SOIL MICROBIOLOGY LABORATORY. (Same as Microbiology 424B.) Experiments designated to determine numbers and to study the characteristics and biochemical activities of the soil microflora as related to fertility. Prerequisites: 424A, Microbiology 100 or 301.
- 427-4. MINERAL NUTRITION OF PLANTS. (Same as Botany 427.)
- 438-3. ADVANCED VEGETABLE CROPS. Studies of the genetic, morphological, and physiological factors influencing the production of vegetable crops. Prerequisites: 264, Botany 320, or consent of instructor.
- 440-3. PLANT PROPAGATION. Fundamental principles of asexual and sexual propagation of horticultural plants. Actual work with seeds, cuttings, grafts, and other methods of propagation. Prerequisites: 264, Botany 101, or consent of instructor.
- 458-4. GRADING AND MARKETING OF FIELD CROPS. (Same as Agricultural Industries 458.) Grading and marketing factors affecting the quality of grain and hay crops; standards employed in their classification and grading in the commercial market operations in marketing field crops. Field trips to commercial grain-grading laboratory and marketing center cost about \$5. Prerequisites: 209, Economics 205, Agricultural Industries 354, or consent of instructor.

- 506-4. THE USE OF RADIOISOTOPES IN AGRICULTURE. Emphasis on current techniques. Laboratories devoted to giving experience in safe handling of isotopes in such techniques as measurement of soil moisture and fertilizer absorption and translocation. Prerequisite: consent of department.
- 520-1 to 6. READINGS. Contemporary books and periodicals on selected subjects within the fields of the plant industries.
- 575-1 to 6. RESEARCH. Directed research on approved projects investigating selected fields of the plant industries.
- 581-1 to 6. SEMINAR. Group discussions of and individual papers on subjects and problems relating to soils, field and horticultural crops, and other phases of the fields of the plant industries.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

PSYCHOLOGY

Courses on the 400 and 500 levels are listed according to areas. The second two digits indicate the content area:

- 00-19 General and experimental
- 20-29 Measurement, methodology, and research design
- 30-39 Personality, counseling, and psychotherapy
- 40-49 Tests and assessment procedures
- 50-59 Child and developmental
- 60-69 Social
- 70-79 Personnel and industrial
- 90-99 Independent projects, seminars, practica, and research

- 401-4, 402-4, 403-4. PROSEMINAR IN GENERAL PSYCHOLOGY I, II, III. Basic conceptual and methodological problems in the study of behavior. I. History and systems of psychology, philosophy of science, scientific methodology, behavior theory. II. Acquisition of behavior, sensory and perceptual processes, motivation and emotion. III. Personality and individual differences, new conceptual and methodological developments and trends. To be taken in sequence. Prerequisite: consent of instructor. Open to graduate students in other departments by arrangement with department chairman.
- 404-4. THEORIES OF PERCEPTION. An examination of the different theories concerned with an organism's sensory contact with his environment. Physiological, social, and organizational theories of perception will be considered. Prerequisite: 212 or consent of instructor.
- 406-4. LEARNING PROCESSES. Processes by which individual behavior is changed, using procedures developed in the learning laboratory. Introduction to major concepts and data of learning.
- 407-4. THEORIES OF LEARNING. A consideration of the major contemporary learning theories and their relation to experimental data. Prerequisite: 212 or consent of instructor.
- 408-4. THEORIES OF MOTIVATION. An examination of instinct theories,

- biological drives, emotions, social motives, and psychodynamic theories as they contribute to a comprehensive psychology of motivation. Prerequisite: 212 or consent of instructor.
- 409-4. HISTORY AND SYSTEMS. Study of the important antecedents of contemporary scientific psychology. Considers issues, conceptual developments, and research advances, and presents the major schools and systems. Prerequisite: 20 hours in psychology or consent of instructor.
- 420-4. SCIENTIFIC METHODOLOGY IN PSYCHOLOGY. Scientific methodology as an approach to investigation and classification of problems involved in understanding the psychological nature of man. Prerequisite: consent of instructor.
- 421-4. PSYCHOLOGICAL TESTS AND MEASUREMENTS. Principles of psychological measurement, including errors of measurement, techniques for estimating reliability and validity, techniques of test construction, and problems in assessment and prediction. The laboratory will include the use of selected instruments. Lecture and laboratory. Prerequisite: 8 hours of psychology.
- 424-2. PSYCHOPHYSICAL METHODS. Survey of the major psychophysical methods, and their applications. Lecture and laboratory.
- 431-4. PSYCHOPATHOLOGY. Classification, description, etiology and treatment of the disorders of personality organization and behavioral integration. Observations in a state mental hospital setting. Prerequisite: 305 or consent of instructor.
- 432-4. MENTAL HYGIENE. An integration of psychological knowledge and principles concerning factors and conditions affecting the individual which tend to facilitate or to deter mental health. Prerequisite: 305 or consent of instructor.
- 433-2 to 6. PERSONALITY AND MENTAL HEALTH. Seminar on the basic factors in psychological development and their implications for mental health and psychopathology. Prerequisite: consent of instructor.
- 438-4. PSYCHOLOGICAL CONSIDERATIONS IN TREATMENT. For advanced undergraduates and graduate students entering allied professions in which they will be directly concerned with corrective or remedial service. Basic psychological principles and considerations relevant to planning and conducting such treatment; potentialities and limitations of individual and group treatment; environmental manipulation. Prerequisite: recommendation of student's major department.
- 440-4. THEORIES OF PERSONALITY. A review and critical evaluation of major personality theories and their supporting evidence. Prerequisite: 305 or consent of instructor.
- 451-4. ADVANCED CHILD PSYCHOLOGY. An examination of the concepts, methods, and problems of human development with consideration of both its psychobiological and psychosocial aspects. Prerequisite: 301 or 303 or consent of instructor.
- 461-4. ADVANCED SOCIAL PSYCHOLOGY. Examines current areas of interest in the study of social behavior: language behavior, communication, social influence, attitude change, interpersonal perception, etc. Emphasis is on the individual in the social context. Prerequisite: 307 or consent of instructor.
- 465-4. GROUP DYNAMICS AND INDIVIDUAL BEHAVIOR. Examination of research and theory in the area of small-group interaction. Examines

- such topics as group structure and function, group problem-solving, leadership, etc. Prerequisite: 307 or consent of instructor.
- 471-4. ADVANCED INDUSTRIAL AND PERSONNEL PSYCHOLOGY. An advanced course presenting selected topics in the field of industrial, engineering and personnel psychology. Prerequisite: 320 or 322 or consent of instructor.
- 490-1 to 16. INDEPENDENT PROJECTS. Independent readings and projects in psychology. Prerequisite: consent of instructor and chairman.
- 509-4. INSTRUMENTATION IN BEHAVIORAL SCIENCE. Study of methods of research instrumentation. Techniques of stimulation and of physiological and psychological response recording. Lecture and laboratory. Prerequisite: consent of instructor.
- 512-4. SENSORY PROCESSES. A study of the structure and functions of the sense organs. Emphasis will be placed on the psychological data which describe the function of these organs. Prerequisite: consent of instructor.
- 514-4. PHYSIOLOGICAL PSYCHOLOGY. Study of neural and endocrine mechanisms underlying behavioral processes. Lecture and laboratory. Prerequisite: consent of instructor.
- 520-4, 521-4, 522-4. RESEARCH DESIGN AND INFERENCE I, II, III. 520 an introduction to psychological measurement: types of scales, introduction to scaling and psychophysical methods, reliability, sources of error, and methods of estimation. 521 a continuation of 520 with emphasis on validity and multiple measures and inference. 522 an application of standard methods to the design, analysis and interpretation of psychological experiments. To be taken in sequence.
- 523-2. RESEARCH SEMINAR. Major methods of obtaining data, use of computational and laboratory equipment, planning of research projects. Every student will be expected to submit a detailed research prospectus for group criticism. Prerequisite: 522.
- 524-4. ADVANCED RESEARCH METHODOLOGY. Theory and application of complex experimental designs and multivariate procedures. Prerequisite: 522.
- 525-4. MENTAL TEST THEORY. Derivation of the basic psychometric equations, effects of test length and group heterogeneity on test parameters, criteria of parallel tests, weighing and differential prediction. Prerequisite: 524.
- 530-4. PERSONALITY THEORY AND DYNAMICS. Intensive treatment and critical analysis of several representative approaches to personality. Consideration also of important personality concepts common to most theoretical approaches. Prerequisite: consent of instructor.
- 531-4. ADVANCED PSYCHOPATHOLOGY. Consideration of special topics, including psychological theories of the nature and etiology of human pathology, assessment of pathology, and institutional care and treatment. Includes extensive field experience in a mental hospital setting. Prerequisite: 530, 541, 542, and consent of instructor.
- 532-2. EXPERIMENTAL APPROACHES TO PERSONALITY. Presentation of conceptual formulations and research data from representative experimental approaches to personality. Critical evaluation of methodological approaches to personality study. Prerequisite: 530 or consent of instructor.
- 536-4. FUNDAMENTALS OF COUNSELING. Introduction to the common assumptions, dimensions, and communicative skills underlying psycho-

- logical counseling. Observation utilized to supplement didactic discussion. Lecture and demonstration. Prerequisite: consent of instructor.
- 537-4. COUNSELING AND PSYCHOTHERAPY. Systematic presentation of major approaches to counseling and psychotherapy. Consideration of salient aspects of the therapeutic situation and of the process and nature of changes during psychotherapy. Critical evaluation of both theory and practice. Consideration of research findings and problems. Prerequisite: 530 and consent of instructor.
- 538-2. GROUP PSYCHOTHERAPY. Presentation of major approaches to group psychotherapy. Prerequisite: 537 and consent of instructor.
- 541-2 to 4, 542-2. PSYCHODIAGNOSTICS I AND II. Introduction to clinical psychology with attention to the function and clinical use of individual intelligence tests. Theories of intelligence and related research. 541: age scales with emphasis on infant and child testing. 542: point scales and tests of deterioration with emphasis on child and adult testing. Lecture and practicum. Prerequisite: 520 and consent of instructor.
- 543-4, 544-2. PSYCHODIAGNOSTICS III AND IV. Basic theory and assumptions underlying projective methods. Use of projective techniques as measures of personality and as tools for clinical diagnosis and research. 543: thematic projective techniques. 544: Rorschach and Bender-Gestalt. Lecture and practicum. Prerequisite: 542 or consent of instructor.
- 545-2. PSYCHODIAGNOSTICS V. Nature and theory of questionnaires for personality assessment and psychodiagnosis. Consideration of their use in clinical research. Lecture and practicum. Prerequisite: consent of instructor.
- 546-3 to 4. PSYCHODIAGNOSTICS FOR SPECIAL POPULATIONS. Tests used in diagnostics and measurement of special populations such as retarded, blind, deaf, brain injured, and the like. Lecture and laboratory. (Same as Special Education 573.) Prerequisite: consent of instructor.
- 547-2. ASSESSMENT PROCEDURES IN COUNSELING. Use and integration of psychological test data, vocational, socio-economic, and educational information in assessment and counseling. Prerequisite: 421 or consent of instructor.
- 552-4. EXPERIMENTAL CHILD PSYCHOLOGY. Consideration of relationship of methodology to child theory, typical methodological procedures and problems specific to children, and representative research topics. Prerequisite: 451 or consent of instructor.
- 554-2. DEVELOPMENTAL THEORY. Systematic study and critical evaluation of representative theories of child behavior. Prerequisite: 451 or consent of instructor.
- 556-2. PSYCHOLOGICAL TREATMENT OF THE CHILD. Investigation of personality and behavior problems. Etiological factors and methods of treatment. Prerequisite: 451 or consent of instructor.
- 561-4. SOCIAL INFLUENCE PROCESSES. Critical review of theoretical and empirical developments in the study of influence processes, attitude change, etc. Social and intrapersonal determinants are examined. Prerequisite: 461 or consent of instructor.
- 562-4. OBSERVATIONAL TECHNIQUES AND CONTENT ANALYSIS. Examination and evaluation of research methods and measurement techniques utilized in social psychology. Prerequisite: 461 or consent of instructor.

- 564-4. COMMUNICATION AND GROUP BEHAVIOR. Emphasis in this course is on language behavior and the psychological study of the communication process. Examines theories, methods and research in these areas. Prerequisite: 461 or consent of instructor.
- 571-4, 572-4. INDUSTRIAL PSYCHOLOGY I, II. 571 covers motivation and morale, job satisfaction, leadership, communication, industrial relations, market research. 572 covers job analysis, employee evaluation, selection and training, human engineering, accidents. Prerequisite: 520 or equivalent.
- 573-2. SELECTION AND PLACEMENT. Proficiency measurement, selection and validation of test batteries, use of the interview and personal history data in selection, quota, and classification problems, administration of a selection program. Prerequisite: 524 or consent of instructor.
- 574-2. PSYCHOLOGY OF INDUSTRIAL RELATIONS. Analysis of psychological factors involved in industrial organization, employer-employee relations, and union-management relations. Prerequisite: 571 or consent of instructor.
- 576-2 to 4. HUMAN ENGINEERING. Analysis of man-machine systems, human factors in the design of display and control systems, limitations and capabilities of the human operator. Prerequisite: consent of instructor.
- 590-1 to 16. READINGS IN PSYCHOLOGY. Readings in selected topics in psychology under staff supervision. Prerequisite: consent of department.
- 591-1 to 36. RESEARCH IN PSYCHOLOGY. Research under staff supervision in selected areas of psychology. Prerequisite: consent of the department.
- 593-1 to 18. PRACTICUM IN PSYCHOLOGY. Practicum experience in a professional setting is offered under staff supervision in the following areas: E. Clinical Psychology, F. Counseling Psychology, H. Industrial Psychology, J. Child Psychology, K. School-Community Mental Health Psychology, L. Teaching of Psychology, M. Rehabilitation, N. Rehabilitation Counseling.
- 595-1 to 40. ADVANCED SEMINAR. Seminars for advanced students in the following areas of psychology: A. Clinical Psychology, B. Counseling Psychology, C. School-Community Mental Health Psychology, D. Industrial Psychology, E. Personality, F. Child Psychology, G. Social Psychology, H. General-Experimental Psychology, J. Teaching of Psychology, K. Rehabilitation Counseling, L. Measurement in Psychology.
- 598-2. ETHICAL AND PROFESSIONAL PROBLEMS IN PSYCHOLOGY. Problems in the professional practice of psychology and in teaching and research. Professional ethics, relations to other professions and the public, organization and structure of the field, current trends. Prerequisite: major in psychology or consent of instructor.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.
- 600-3 to 48. DISSERTATION. Minimum of 36 hours to be earned for the Ph.D. degree.

RECREATION AND OUTDOOR EDUCATION

- 413-4. SAFE AND HEALTHFUL LIVING OUTDOORS. Areas to be included

are foods, sanitation, survival, plants and animals, natural hazards, emergency care, water, riflery, and others. Prerequisites: 334, and at least 10 hours of biological sciences.

- 450-4. PRINCIPLES AND INTERPRETATIONS OF RECREATION. Principles of recreation in relation to education and everyday life. Basic concepts underlying the interpretation of recreation and leisure in the light of economic, psychological, political, and social conditions.
- 470-4. RECREATION IN PUBLIC EDUCATION. Emphasis on current practices and trends in curriculum content, adult education, extracurricular activities, after-school and vacation programs, and co-operative programs with other agencies.
- 480-4. TECHNIQUES IN CAMPING. Preparation of material for use in camps; techniques of camp procedure, camp craft, woodmanship, and crafts.
- 510-2 to 6. SCHOOL CAMPING AND OUTDOOR EDUCATION WORKSHOP. Current practices in school camps; the training of leaders for school camps and the place of outdoor education in the school program.
- 520-4. RECREATION PROGRAM WORKSHOP. Bases for planning community programs of recreation. Scope of leisure opportunities; selection, evaluation, and adaptation of activities.
- 530-4. ORGANIZATION FOR COMMUNITY RECREATION. The development and administration of a recreation program. A study of community recreation, including developing facilities and co-ordinating community agencies.
- 540-4. RECREATION SURVEYS AND PLANNING OF FACILITIES. An analysis of scope, content, objectives, procedures, and types of recreational surveys and appraisals. Collection and analysis of data.
- 550-2 to 6. FIELD PROBLEMS—COMMUNITY RECREATION. Internship in school recreation and outdoor education with emphasis on administrative problems.
- 560-2 to 6. FIELD PROBLEMS. Internship in school recreation and outdoor education with emphasis on administrative problems.

SECONDARY EDUCATION

- 407-4. THE JUNIOR HIGH SCHOOL. The place of the junior high school in the organizational pattern, with major emphasis upon the areas of organization, administration, and curriculum.
- 422-4. EDUCATIONAL MEASUREMENTS I. (Same as Guidance 422.)
- 450-4 to 16. FIELD TRAINING IN COMMUNITY DEVELOPMENT. The student will study in a community where a development program is in progress under the supervision of professional consultants. Prerequisite: Sociology 487.
- 470-4. EXTRA-CLASS ACTIVITIES. Student expected to specialize in one extra-class activity in terms of his own interests and needs. Prerequisite: consent of instructor.
- 473-4. WORKSHOP IN CITIZENSHIP EDUCATION. Designed to improve the teaching of citizenship in the schools. Emphasis upon curriculum, materials, methods. Use made of Citizenship Education Project resources.
- 490-4. WORKSHOP IN ECONOMICS EDUCATION. Designed to assist ele-

- mentary and secondary school teachers in promoting economic understanding in the minds of their students through the translation of economic principles and problems into classroom teaching materials.
- 508-4. SEMINAR: TRENDS IN SELECTED AREAS IN SECONDARY SCHOOLS. For students in advanced graduate work. Individual class members will read basic bibliography related to secondary education and read widely about trends in the area of their own teaching fields. Prerequisites: completion of half or more of the work leading to a master's degree and consent of the instructor.
- 550-4. CORE CURRICULUM IN THE SECONDARY SCHOOL. Designed to help students gain a functional understanding of the core concept. Techniques of selecting materials and the co-operative planning of units of work. Critical study of current practices in this field. Prerequisite: Educational Administration and Supervision 460.
- 562-4. WORKSHOP IN HIGH SCHOOL CURRICULUM. Designed to permit students to work in groups on problems related to the high school curriculum. Such problems should originate in the schools where the students are or will be employed. The point of view maintained is that procedures should be very democratic. The instructor serves as a co-ordinator of activity; resource people are used freely. Prerequisite: one other graduate course in curriculum.
- 564-4. HIGH SCHOOL PRINCIPALSHIP. Designed to deal with problems met specifically by the high school principal. Emphasizes his role in relation to guidance, curriculum, schedule-making, extracurricular activities, public relations, budgeting of time, etc. Prerequisite: Educational Administration and Supervision 424 and consent of instructor.
- 575-2 to 4. INDIVIDUAL RESEARCH. The selection, investigation, and writing of a research topic, under the personal supervision of a member of the departmental graduate staff, in one of the following areas: A. Curriculum, B. Supervision, C. Language Arts, D. Science, E. Reading, F. Social Studies, G. Problems in Secondary Education.
- 586-3. THE CHANGE AGENT IN PLANNED CHANGE. An intensive diagnosis of the dynamics involved in planned change in a social system—using actual situations for study—and the consultant's relationship to this process. Prerequisite: Sociology 333 or consent of instructor.
- 589-2. SEMINAR IN COMMUNITY DEVELOPMENT.
- 591-4. WORKSHOP IN CURRENT PROBLEMS IN SECONDARY EDUCATION. Designed primarily to help high school principals to work effectively and with the help of resource leadership on the most urgent problems confronting their schools. Discussion, reports, lectures, and final examination. Prerequisite: consent of instructor.
- 596-5 to 9. INDEPENDENT INVESTIGATION. A field study required of each student working for the sixth-year professional certificate. The work should be done in the setting of a school system where the student is employed or where full co-operation is extended. The study will involve selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summarizations.
- 597-1 to 3, 598-1 to 3, 599-1 to 3. THESIS. Minimum of 5 hours to be counted toward a master's degree.
- 600-3 to 48. DISSERTATION. Minimum of 36 hours to be earned for the Ph.D. degree.

SECRETARIAL AND BUSINESS EDUCATION

- 402-4. A REVIEW OF RESEARCH IN BUSINESS EDUCATION. A study of the findings of outstanding research workers in business education: the problems studied, the investigational procedures used, and the major conclusions. Prerequisite: consent of instructor.
- 403-3. TEACHING TYPEWRITING. The programming of activities in type-writing training, methods of instruction, skill-building principles and techniques, selection and preparation of practice materials, standards of achievement, and evaluation of pupil progress. Prerequisite: 104 or equivalent.
- 404-3. TEACHING SHORTHAND AND TRANSCRIPTION. The programming of activities in shorthand and transcription training, methods of instruction, skill-building principles and techniques, selection and preparation of practice and homework materials, standards of achievement, and evaluation of pupil progress. Prerequisite: 216 or equivalent.
- 405-3. TEACHING BUSINESS SUBJECTS. Instructional methods and materials for, and the evaluation of pupil progress in, such basic business subjects as general business, consumer education, economic geography, business law.
- 406-4. TEACHING CLERICAL PRACTICE AND OFFICE MACHINES. Instructional methods and materials for, and the evaluation of pupil progress in, clerical practice and office machines.
- 407-4. OFFICE MANAGEMENT. The principles of management as applied to office problems. Emphasis on the role of the office in business management; office organization; physical facilities of the office; office services, procedures, standards, and controls; records management.
- 408-3. TEACHING BOOKKEEPING AND ACCOUNTING. Instructional methods and materials for, and the evaluation of pupil progress in, bookkeeping and accounting. Prerequisite: Accounting 253 or equivalent.
- 500-2 to 5. READINGS IN BUSINESS EDUCATION. Supervised readings in selected subjects. Prerequisite: consent of instructor.
- 501-2 to 5. INDIVIDUAL RESEARCH IN BUSINESS EDUCATION. Selection and investigation of a problem; use of relevant sources and techniques; collection, evaluation, and interpretation of data; and the writing of a report on the investigation. Prerequisite: consent of instructor.
- 502-4. RESEARCH IN BUSINESS EDUCATION. A study of research findings and techniques as exhibited in representative investigations in business education. Emphasis on reading and interpreting research, using research findings in solving instructional problems, and uncovering potential topics for future research. Mathematics 410 or Guidance 420 is a desirable but not a necessary corequisite.
- 503-4. TESTS AND MEASUREMENTS IN BUSINESS EDUCATION. (Same as Guidance 503.) The selection, construction, administration, and interpretation of tests and test scores in business education subjects. Principal emphasis on teacher-made tests, especially of the performance type, with secondary attention to published tests in the field. Prerequisite: Guidance 420 or Mathematics 410 or Economics 307.

- 504-4. **PSYCHOLOGICAL BASES FOR TEACHING SECRETARIAL SKILLS.** Findings of experimental research in human learning applicable to the learning of shorthand, typewriting, and other office skills. Treats the variables in skill-learning and modes of manipulating these variables for specific purposes. Special emphasis on the identification of needed research in the learning of the skill subjects and the design and conduct of experimental studies in the field. Prerequisites: 403 or 404, Economics 307 or Mathematics 410 or Guidance 420, Psychology 201, Guidance 305.
- 505-1 to 6. **WORKSHOP IN BUSINESS EDUCATION.** Major issues in business teacher education. Ordinarily offered during one or two weeks of the summer session. Prerequisite: consent of instructor.
- 506-4. **PRINCIPLES AND PROBLEMS OF BUSINESS EDUCATION.** A study of the fundamentals of business education; its relation to business, to general and vocational education, and to guidance programs; its history, current status, and trends; special emphasis on objectives and curriculum problems. Prerequisite: consent of instructor.
- 599-2 to 9. **THESIS.** Minimum of 5 hours to be counted toward a master's degree.

SOCIOLOGY

PRINCIPLES, HISTORY, THEORY

- 400-2. **CURRENT SOCIOLOGY.** Students read, report on, and evaluate content of leading sociological journals. Prerequisite: 8 hours of sociology.
- 407-4. **INTEGRATED SOCIOLOGY.** For seniors majoring in sociology. Integration of sociological concepts and principles: society and culture, the human group, social norms and patterns, status and role, organization, structure, and function, social change. Prerequisite: 15 hours of sociology.
- 450-4. **SOCIAL THOUGHT I: BEFORE 1800.** The ideological basis of Western society. The classical foundations. Trends of thought from the Renaissance to the Enlightenment. Prerequisite: background in history.
- 451-4. **SOCIAL THOUGHT II: THE SOCIOLOGICAL MOVEMENT.** From Romanticism to Realism; rise and development of scientific social thought. Prerequisite: background in 19th-century history or literature.
- 452-4. **SOCIAL THOUGHT III: TWENTIETH CENTURY.** Recent trends in social thought; from Spengler and Toynbee to Riesman and Whyte; the emergence of mass society. Prerequisite: consent of instructor.
- 501-4. **HISTORY OF EUROPEAN SOCIOLOGY.** The development of sociology as a science of society, from synthetic philosophy (St. Simon, Comte, H. Spencer) to analytic sociology (Durkheim, Tonnies, M. Weber, and others). Prerequisite: 451 or consent of instructor.
- 502-4. **SEMINAR IN EUROPEAN SOCIOLOGICAL THEORY: 1800-1910.** The theoretical systems of selected European sociologists studied from the original writings. Prerequisite: 15 hours of sociology or consent of instructor.
- 503-4. **SEMINAR IN EUROPEAN SOCIOLOGICAL THEORY: 1910 TO THE PRESENT.** A continuation of 502. Prerequisite: 15 hours of sociology or consent of instructor.
- 504-4. **SEMINAR IN AMERICAN SOCIOLOGY I: FOUNDATIONS.** Review of backgrounds and development of American sociology to World War

I. Special attention to theory. Prerequisite: 15 hours of sociology or consent of instructor.

- 505-4. SEMINAR IN AMERICAN SOCIOLOGY II. Continuation of 504. Convergence of theory and empirical research. Prerequisite: 15 hours of sociology or consent of instructor.
- 506-4. SEMINAR IN CONTEMPORARY SOCIOLOGICAL THEORY. An analysis of recent sociological theories, including a survey of current approaches to the construction and application of systematic theoretical models. Special attention will be given to "structural-functional" analysis and to the theoretical adequacy of selected theory-oriented empirical research areas. Prerequisite: 15 hours of sociology or consent of instructor.

SOCIAL ORGANIZATION AND STRUCTURE

- 435-4. SOCIAL STRATIFICATION. A comparative study of social class systems, with emphasis on the American systems. Relationships of class position to behavior in family, religion, politics, etc. Prerequisite: 101.
- 438-3. SOCIOLOGY OF OCCUPATIONS AND PROFESSIONS. Natural history and institutional aspects of occupations in our society, cultural context of occupations in both primitive and modern society, preparation for jobs, human values in work, promotion and discharge, mobility, retirement. Prerequisite: 101.
- 449-4. SOCIOLOGY OF AGING. The social implications of an aging population; social adjustments to the aging process; personal adjustments to the roles and statuses of later maturity; a consideration of retirement and public assistance programs for older people. Prerequisite: 101 or consent of instructor.
- 471-4. PRINCIPLES OF DEMOGRAPHY. Techniques in analyzing and evaluating data on human population; composition, birth and death rates, life tables, migration data, estimates of future trend. Practical uses of demographic techniques. Prerequisites: 312, 371.
- 533-4. ECOLOGY OF HUMAN COMMUNITIES. Spatial and temporal organization of population and institutions with special reference to the organization of rural and metropolitan communities. Emphasis on basic research methods and current sources of data in respect to type, structure, and growth of the communities. Prerequisite: 15 hours of sociology or consent of instructor.
- 534-4. SEMINAR IN INTERGROUP RELATIONS. Cross-cultural study of inter-ethnic and inter-faith relations, with special attention to conflict, accommodation, acculturation and assimilation. Prerequisite: 15 hours of sociology or consent of instructor.
- 537-4. SOCIOLOGY OF LAW. An analysis of the relationship between law and society with special emphases on the origin and evolution of law and on the role of law in a changing society. Prerequisite: 15 hours of sociology or consent of instructor.
- 538-4. SEMINAR IN INDUSTRIAL SOCIOLOGY. Selected aspects of Industrial Organization and related problems including such topics as: functional and dysfunctional deviations from ideal bureaucracy, promotion policies, labor relations, job aptitudes, job satisfactions, and public relations. Prerequisite: 15 hours of sociology or consent of instructor.

- 539-4. **SOCIOLOGY OF BUREAUCRACY.** Analysis of the structural characteristics and conditions for the emergence of bureaucratic and quasi-bureaucratic forms of organization. Attention will be given to such problems as the bases of authority, stabilizing mechanisms, systems of formal and informal relations, rationality and paradox in bureaucratic organization. The impact of bureaucratic organization upon character structure and its role in the formation of classes and elites will also be considered. Prerequisite: 15 hours of sociology or consent of instructor.
- 542-4. **SEMINAR ON THE FAMILY.** The family as a field of sociological study. Assessment of significant historical and contemporary writing. Prerequisite: 15 hours of sociology including 340, or consent of instructor.
- 543-4. **SEMINAR IN FAMILY VARIABILITY.** An analysis of the structure, organization and function of the family in several contemporary and primitive societies. Prerequisite: 15 hours of sociology including 340, or consent of instructor.
- 544-4. **SEMINAR IN FAMILY RESEARCH.** A detailed analysis of significant research in the field of the family. Special attention to be given to methods employed as they relate to the specific problems investigated. Prerequisite: 15 hours of sociology including 340, or consent of instructor.
- 545-4. **THE FAMILY AND SOCIAL CHANGE.** The significant social factors responsible for changes in the family from ancient times to present. Analysis of representative writings from several periods. Prerequisite: 15 hours of sociology including 340, or consent of instructor.

SOCIAL PSYCHOLOGY

- 424-4. **COLLECTIVE BEHAVIOR.** The behavior of people in large groups; collective interstimulation and emotions; crowds, audiences, and publics; mass stimuli and mass response. Prerequisite: 321 or 322, or consent of instructor.
- 426-4. **SOCIAL FACTORS IN BEHAVIOR AND PERSONALITY.** How group situations and values affect behavior and shape personality; development of concepts, role-concepts, attitudes, values; theories of motivation; self-concepts; conflicting social values in relation to individual motivation. Prerequisite: 321 or Psychology 305.
- 427-4. **PERSONALITY AND SOCIAL ADJUSTMENT.** Basic mechanisms of adjustive behavior; concepts and criteria of personal integration and social adjustment; varieties of adjustive and non-adjustive behavior; theories of personal organization and disorganization; selected problems. Prerequisite: 321 or Psychology 305.
- 445-3. **SOCIOLOGY OF INFANCY AND CHILDHOOD.** Influences of primary groups; origins of self- and role-concepts; relationships between early and later development; cross-cultural and inter-class comparisons. Prerequisite: 340 and 426.
- 453-4. **SOCIAL MOVEMENTS.** A sociological study of modern social movements; social and cultural backgrounds, forms of expression and organization; social structure of social movements, their role and function in modern society. Prerequisite: 8 hours of sociology.
- 521-4. **SEMINAR IN SOCIAL PSYCHOLOGY.** Survey of theoretical systems; progress toward integrated body of behavioral theory. Prerequisite: 426.

- 553-4. SEMINAR ON SOCIAL MOVEMENTS. The student will be expected to make a sociological study of a particular social movement or a comparative study of a particular aspect of the sociology of social movements. Prerequisite: 453 or consent of instructor.

SOCIAL DISORGANIZATION AND CONTROL

- 406-3. SOCIAL CHANGE. Processes of social change in the modern world; culture lag and conflict of norms; individual and social problems arising from conflicting systems of social values and cultural norms. Prerequisite: 8 hours of sociology.
- 472-4. TREATMENT AND PREVENTION OF CRIME. Principles of penology; history of punishment and prisons; criminal law, police function, criminal courts; the prison community; the juvenile court and related movements. Prerequisite: 372.
- 561-4. ALCOHOL AND SOCIETY. Analysis of the determinants of ranges of variation in drinking patterns, normal or pathological, viewed cross-culturally and in the context of complex society. Special consideration will be given to the following: the ecology of drinking and alcoholism, drinking patterns and social structure, drinking centered subcultures and institutions, as well as to the genesis and patterning of deviant drinking (alcoholism), responsive movements and systems of control. Prerequisite: consent of instructor.
- 562-4. DISORGANIZATION: PERSONAL AND SOCIAL. Comparative study of the role of social, cultural, and psychological factors in the genesis of specific social pathologies exhibiting marked variation in group rates. Pathologies such as suicide, homicide, and alcoholism will be taken as illustrative. The strategic significance of the study of such phenomena for theories of social and personal disorganization, will be considered in detail. Prerequisite: 15 hours of sociology or consent of instructor.
- 563-4. RESEARCH PROBLEMS IN DEVIANCE AND DISORGANIZATION. For students who are concerned to develop viable research projects in the areas of social disorganization and deviant behavior. Students formulate and present original research prospectuses for critical evaluation. Consideration given to questions of theoretical relevance, research design, and appropriate techniques. Prerequisite: 15 hours of sociology or consent of instructor.
- 572-3. SEMINAR IN CRIMINOLOGY. Critical study of important research through book reviews and theoretical analyses. Prerequisite: 372 or consent of instructor.
- 573-3. SEMINAR ON THE SOCIOLOGY OF WAR. Critical analysis of the hypothesis that modern war is part and product of an inherently understandable process or integration of processes. This approach will be contrasted with the moralistic approach. Prerequisite: 15 hours of sociology or consent of instructor.

METHODOLOGY

- 412-4. SOCIOLOGICAL RESEARCH. Introduction to methods of sociological

research. Relations between theory and research design. Application of scientific methods to social data. Prerequisite: 12 hours of sociology or consent of instructor.

- 511-4. **METHODOLOGICAL FOUNDATIONS OF THE SOCIAL SCIENCES.** Social science methodology; the nature of social facts and phenomena, the formation of concepts, the application of logic in the social sciences. Prerequisites: 407, and Philosophy 420 or consent of instructor.
- 513-3. **RESEARCH TECHNIQUES I.** Scientific research methods and techniques applied to the study of social phenomena. Discussion of the scope and purpose of social research; evaluating and interpreting social data. Prerequisite: 312 or consent of instructor.
- 514-3. **RESEARCH TECHNIQUES II.** Continuation of Sociology 513.
- 516-4. **SEMINAR IN METHODOLOGY.** Supervised research, with practical application of research principles. Prerequisites: 511, 513, 514.
Note: the following courses in statistics are part of the sociology curriculum but are offered in the Department of Mathematics.
Mathematics 410-4, 411-4, 412-4. Statistical analysis I, II, III.

GENERAL COURSES

- 591-2 to 6. **INDIVIDUAL RESEARCH.** Supervised research projects. Open only to graduate students with a major in sociology. Prerequisite: consent of instructor and chairman of department. Credit according to achievement.
- 596-2 to 6. **READINGS IN SOCIOLOGY.** Supervised readings in selected subjects. Prerequisite: consent of instructor and chairman of department.
- 599-2 to 9. **THESIS.** Before a thesis can be submitted, all departmental requirements, including language and comprehensive examinations, must be satisfied. Minimum of 5 hours counted toward a master's degree.

RELATED FIELDS

SOCIAL WORK

- 481-4. **PROCESSES IN SOCIAL WORK.** Theory, rationale, and practice of casework, group work, social welfare organization, and the roles of supervision, administration, and research in relation to each. Case material study and discussion with field observation and practice. Prerequisite: 380 or consent of instructor.
- 482-3. **SOCIAL WORK IN SELECTED AGENCIES.** Study of representative literature on casework in family, phychiatric, medical, school, military, child welfare, and correctional settings, and others. Case material study and discussion with field observation and practice. Prerequisite: 481.

REHABILITATION

- 480-2. **HISTORY AND LEGAL ASPECTS OF REHABILITATION.** A survey of historical and legal developments in rehabilitation agencies, with particular emphasis on current theories and trends. Open only to students in the Rehabilitation Institute.
- 580-3. **SUPERVISED EXPERIENCE IN REHABILITATION COUNSELING.**

Supervised counseling experience in social work or welfare agencies. Open only to students in the Rehabilitation Institute., Prerequisites: 480, 481, 482.

581-3 to 9. FIELD WORK IN REHABILITATION. Supervised field work in social work or welfare agencies. Block or concurrent placement. Open only to students in the Rehabilitation Institute.

585-1 to 3. SEMINAR IN REHABILITATION COUNSELING. A continuing survey of recent developments and trends in the organizational structure, functions, and team interaction of specialists devoted to rehabilitation of the handicapped. Selected problems or the role of the rehabilitation counselor in multiple settings. Prerequisite: consent of instructor. Maximum credit of 6 hours.

COUNSELING

484-3. SURVEY COURSE IN MARRIAGE COUNSELING. Survey and analysis of the field of marriage counseling; assessment of current practices and techniques in terms of contemporary sociological theory. Prerequisites: 241 and consent of instructor.

COMMUNITY DEVELOPMENT

486-1 to 5. INDEPENDENT STUDY IN COMMUNITY DEVELOPMENT. Individual study and projects designed to fit the needs of each student. Prerequisite: consent of instructor.

487-4. COMMUNITY DEVELOPMENT I. The concepts of community development and analysis of the social-psychological forces and processes involved in citizen study, planning and action directed toward the fuller development of communities in a democratic society. Laboratory period for field trips. Prerequisite: 4 hours of sociology or equivalent.

488-3. COMMUNITY DEVELOPMENT II. Principles and procedures applicable to social problem solving in the context of a community development program. Laboratory period for field trips. Prerequisite: Sociology 487.

586-3. THE CHANGE AGENT IN PLANNED CHANGE. (Same as Secondary Education 586.) An intensive diagnosis of the dynamics involved in planned change in a social system—using actual situations for study—and the consultant's relationship to this process. Prerequisite: 333 or consent of instructor.

SPECIAL EDUCATION

406-4. TECHNIQUES AND INTERPRETATION OF HEARING TESTING. See Speech Correction 406 for course description.

410-4. PROBLEMS AND CHARACTERISTICS OF THE MENTALLY RETARDED. Objectives, curriculum, methods, and materials of instruction for slow learners. Emphasis upon the principles of learning as they can be applied to this group. Observations. Prerequisite: Guidance 305 or Psychology 301 or 303.

- 411-4. EDUCATION OF THE PARTIALLY SIGHTED AND BLIND. A study of the objectives, curriculum, methods, and techniques of instruction of classes for the partially sighted. Special emphasis on sight conservation in the regular classroom, special equipment, and observation of sight-saving classes. Prerequisites: Guidance 305, Psychology 301 or 303.
- 412-4. EDUCATION OF GIFTED CHILDREN. Designed to help teachers in the identification of and programming for gifted and talented children. Prerequisite: Guidance 305 or Psychology 301 or 303.
- 413-4. DIRECTED OBSERVATION OF EXCEPTIONAL CHILDREN. Taken concurrently with a problem course in a specific area which provides student observation and participation in individual work with exceptional children. Prerequisite: consent of instructor.
- 414-4. THE EXCEPTIONAL CHILD. Physical, mental, emotional, and social traits of all types of exceptional children. Effects of handicaps in learning situations. Methods of differentiation and techniques for rehabilitation. Individual case studies used; observations and field trips. Prerequisites: Guidance 305, Psychology 301 or 303.
- 415-4. EDUCATION OF THE DEAF AND HARD OF HEARING. Methods of teaching reading and developing language sense in the deaf and hard of hearing. Tactile, visual, and kinesthetic experiences; hearing aids and other special equipment presented in terms of their educational application. Observations. Prerequisites: Guidance 305, Psychology 301 or 303, Speech 105 and 212, or equivalent.
- 416-4. EDUCATION OF ORTHOPEDIC CHILDREN. Objectives, curriculum, methods, and techniques of instruction of classes for orthopedic children. Emphasis given to program organization, special types of equipment, and observation of classes for the orthopedic. Prerequisite: same as 410.
- 417-4. THE ATYPICAL CHILD AND SOCIAL AGENCIES. A survey of social agencies contributing to the welfare and care of exceptional children. Emphasis given to services rendered and to methods of contact and cost. Visits made to agencies and institutions: specialists invited to appear before the class. Prerequisites: Guidance 305 or Psychology 301 or 303, and Sociology 101.
- 418-4. WORKSHOP IN SPECIAL EDUCATION. Designed to promote better understanding of the psychological and educational problems of atypical children. Specialists used as consultants. Open to seniors and graduate students majoring in education, guidance, or special education. Prerequisite: Guidance 305 or Psychology 301 or 303.
- 419-4. COMMUNICATION PROBLEMS OF THE DEAF AND HARD OF HEARING. (Same as Speech Correction 419.) Objectives and techniques for the teaching of lip reading, speech conservation, and auditory training. Prerequisite: 406 or consent of instructor.
- 420-4. METHODS AND MATERIALS FOR TEACHING EXCEPTIONAL CHILDREN. Offered in conjunction with practice teaching, dealing with methods and materials needed in teaching specific types of exceptional children.
- 428-4. SPEECH CORRECTION FOR THE CLASSROOM TEACHER. (Same as Speech Correction 428.)
- 481-4. SEMINAR.
- 501-4. SPECIAL RESEARCH PROBLEM. For majors and minors in the areas of special education. Choosing and conducting research activities. The

student to select a topic for research and present it, upon completion, to the staff. Prerequisite: consent of staff.

- 513-4. ORGANIZATION, ADMINISTRATION, AND SUPERVISION OF SPECIAL CLASSES. Emphasis upon the functions, underlying principles, and cautions to be observed in the organization and administration of special classes. The selection and training of teachers, problems of supervision, special equipment, transportation, co-operating agencies, and legal aspects of the program. Prerequisites: Guidance 305, Psychology 301 or 303.
- 570-2. SEMINAR: VOCATIONAL GUIDANCE OF THE HANDICAPPED. Examination of vocational problems of the handicapped. Vocations open to handicapped; requisites for success. Advanced majors only.
- 571-2, 572-2. SPECIAL PROBLEMS OF THE HANDICAPPED. Program development and training of handicapped individuals with special emphasis on the socio-psychological aspects of disability.
- 573-3 to 4. PSYCHODIAGNOSTICS FOR SPECIAL POPULATIONS. (Same as Psychology 546.)
- 574-1 to 12. SUPERVISED EXPERIENCE IN REHABILITATION. Provides for experience both on and off campus in counseling, interviewing, case study, and placement of rehabilitation clients under adequate supervision.
- 577-4 to 12. PRACTICUM IN SPECIAL EDUCATION. Practical experience in working with atypical children. A minimum of 8 to 12 hours per week in the classroom with atypical children who exemplify this area of specialization. Special research project.
- 596-5 to 9. INDEPENDENT INVESTIGATION. A field study required of each student working for the sixth-year professional certificate. The work should be done in the setting of a school system where the student is employed or where full co-operation is extended. The study will involve selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summarizations.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

SPEECH

GENERAL SPEECH

- 408-4. PSYCHOLOGY OF SPEECH. Nature and development of speech, its basic psychology, and the part speech plays in personality development.
- 440-4. ADVANCED PHONETICS. Phonetic theory. Materials and methods of linguistic geography. Prerequisite: 200.
- 449-4. GENERAL SEMANTICS. Means of changing implications so that language, in spoken or written form, describes the life facts.
- 520-3. PHILOSOPHICAL FOUNDATIONS OF SPEECH. A special course reviewing the philosophy of speech for graduate and advanced students. Designed to take advantage of the knowledge and background of distinguished visiting professors.
- 530-1 to 4. RESEARCH PROBLEMS IN SPEECH. Individual work upon selected problems for research.
- 532-4. AREAS AND TECHNIQUES OF RESEARCH IN SPEECH. Study and

analysis of outstanding works in the various areas of research. Lectures on research techniques and study possibilities in the field.

599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

600-3 to 48. DISSERTATION. Minimum of 36 hours to be earned for the Ph.D. degree.

ORAL INTERPRETATION

423-4. ORAL INTERPRETATION OF POETRY. The reading of poetry and the interpretation of the thought and emotional content of the poetry to the audience. Prerequisites: 103, 223.

424-4. ORAL INTERPRETATION OF DRAMATIC LITERATURE. Reading, selecting, cutting, and presenting various types of dramatic literature. Each student gives a final recital program of readings. Prerequisites: 103, 223.

434-4. LECTURE AND LECTURE-RECITAL. Study of professional work on the public platform which is climaxed by a lecture or recital of a professional nature. Prerequisite: 12 hours of public speaking, interpretation, or theater.

523-3. SEMINAR: PROBLEMS IN INTERPRETATION. An investigation of the more advanced problems in oral interpretation, such as creation of atmosphere, use of restraint, impersonation, and impressionism. Prerequisites: 18 hours in interpretation and theater and consent of instructor.

530-1 to 4. RESEARCH PROBLEMS IN SPEECH. Individual work upon selected problems for research.

599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

RHETORIC AND PUBLIC ADDRESS

407-4. HISTORY OF AMERICAN PUBLIC ADDRESS I. Critical studies of American speakers; selected speakers and speeches which reflect the dominant social and political ideas in American history. A lecture, reading, and discussion course.

413-4. HISTORY OF AMERICAN PUBLIC ADDRESS II. A continuation of 407; may be taken independently.

417-4. CONTEMPORARY PUBLIC ADDRESS. A critical study of speakers and speeches selected to present the characteristic ideas of leading social and political developments in national and international affairs since 1918. A lecture, reading, and discussion course.

418-4. BRITISH PUBLIC ADDRESS. Critical study of British speakers to c. 1920. Selection of material will be governed both by men and the issues that moved men throughout British history.

425-3. TECHNIQUES OF DISCUSSION LEADERSHIP. Studies in the field of group discussion designed to clarify the functions and concepts of the leader in democratic society.

500-4. SURVEY OF CLASSICAL RHETORIC. Ancient rhetoricians and orators from Corax to Augustine, with special emphasis upon the works of Aristotle and Cicero. Lectures and special studies.

504-3. MEDIEVAL RHETORICAL THEORY. An examination of the trends

- in rhetorical theory between A.D. 100 and 1600 designed to facilitate understanding of the transition from classical to modern theory.
- 505-4. MODERN RHETORICAL THEORY. An analysis of selected theories of public address from the seventeenth century to the present, with a view of discovering the methods and objectives of modern rhetoricians and relating them to society and its problems during the period.
- 508-4. SEMINAR: STUDIES IN DISCUSSION. Studies in group thinking and group action with a view to improving discussion and conference techniques.
- 510-4. SEMINAR: PERSUASION AND SOCIAL CONTROL. Studies covering the uses and applications of persuasion in the various fields of social activity. The mass media will be examined as they apply to such areas as politics, business, religion, and education.
- 524-3. SEMINAR: PROBLEMS IN RHETORIC AND PUBLIC ADDRESS. Individual problems in the theories and methods in various fields of public speaking; a survey of the areas and methods of graduate research in public speaking. Prerequisite: 12 hours of public address.
- 530-1 to 4. RESEARCH PROBLEMS IN SPEECH. Individual work upon selected problems for research.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

SPEECH EDUCATION

- 402-4. DIRECTING. Selection of plays, casting, and methods of rehearsal. Development of characterization, control of tempo, and similar problems studied. Students to direct or to aid in directing one-act plays and major productions.
- 410-4. CREATIVE DRAMATICS. Principles of creative dramatics. Methods of developing original dramatizations with kindergarten-primary school children. The course will be developed through study, observation, and practice. Prerequisites: senior or graduate standing with either a kindergarten-primary, speech, or theater major.
- 427-4. THE FORENSIC PROGRAM. Coaching and organizational methods for extracurricular and curricular forensic programs in school and college.
- 511-3. TEACHING THE COLLEGE SPEECH COURSE. Problems, methods, and materials in the teaching of speech in college with primary emphasis on the basic course. Examination of textbooks, courses of study, curriculum making, measurement, and relationship to other fields.
- 525-4. SEMINAR IN SPEECH EDUCATION. Problems of philosophy and methods of teaching speech in the elementary and secondary schools. Prerequisite: 306 or consent of instructor.
- 530-1 to 4. RESEARCH PROBLEMS IN SPEECH. Individual work upon selected problems for research.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.

SPEECH CORRECTION

- 400-1 to 4. INDEPENDENT STUDY IN SPEECH CORRECTION AND

- AUDIOLOGY. Activities involved shall be investigative, creative, or clinical in character. Must be arranged in advance with instructor. May be repeated up to six hours of credit.
- 405A, B, C-0 to 4. PRACTICUM IN SPEECH AND HEARING THERAPY. Clinical and school procedures in speech correction and audiology. One hour of class per week, and two hours of clinical activity or work on clinically related projects for each hour of credit. 405A (fall) emphasizes therapeutic procedures. 405B (winter) emphasizes diagnostic techniques. 405C (spring, summer) emphasizes the utilization of forms and the preparation of reports. Student may have up to twelve hours total credit in this course. Need not be taken in sequence, but A, B, or C cannot be repeated.
- 406-4. TECHNIQUES AND INTERPRETATION OF HEARING TESTS. Principles and techniques of testing the hearing and interpreting those tests in terms of the individual's needs.
- 409-4. RESEARCH TECHNIQUES IN SPEECH SCIENCE. A presentation of the research techniques used in speech science with particular emphasis on equipment, experimental design, and study of significant research contributions to the field. Open to advanced students in speech or those with consent of the instructor.
- 412-4. CEREBRAL PALSY. An investigation of the etiology, problems, and therapy of cerebral palsy. Prerequisite: 212 or consent of instructor.
- 414-4. ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING MECHANISMS. (Same as Physiology 414.)
- 415-4. APHASIA. An investigation of the etiology, problems, and therapy of aphasia. Prerequisite: 412 or consent of instructor.
- 416-4. HEARING. Designed to acquaint the student with the theories and facts concerned with the functions of the hearing mechanism.
- 419-4. COMMUNICATION PROBLEMS OF THE DEAF AND HARD OF HEARING. (Same as Special Education 419.) Objectives and techniques for the teaching of lip reading, speech conservation, and auditory training. Prerequisite: 406 or consent of instructor.
- 420-4. ADVANCED CLINICAL AUDIOMETRY. Principles and procedures for advanced audiometric testing. Prerequisite: 406.
- 428-4. SPEECH CORRECTION FOR THE CLASSROOM TEACHER. (Same as Special Education 428.) Etiology and therapy of common speech defects. Open to in-service teachers, seniors, and graduate students in education.
- 429-4. SPEECH CORRECTION FOR ALLIED PROFESSIONS. Etiology of speech and hearing defects, resources available for those with such defects. Designed for majors in counseling. Prerequisite: consent of instructor.
- 515-1 to 4. READINGS IN SPEECH PATHOLOGY. Supervised and directed readings in specific areas of speech pathology and audiology.
- 516-1 to 4. SEMINAR IN RESIDUAL HEARING. Special problems of auditory training, speech reading, hearing aids, and programming for aural rehabilitation.
- 520-1 to 4. SEMINAR IN HEARING. Special hearing problems of interest to the advanced student. Special projects and field work.
- 521-1 to 4. SEMINAR IN ARTICULATION AND DELAYED SPEECH. Special problems of language development and articulation.

- 522-1 to 4. SEMINAR IN ORGANIC SPEECH PROBLEMS. Special problems in cerebral palsy, cleft palate, and aphasia. Special projects and field work.
- 528-1 to 4. SEMINAR IN THE INTERPERSONAL RELATIONSHIPS IN SPEECH AND HEARING. Problems faced by speech therapist in variety of interpersonal relationship situations such as testing, interviewing, parent-teacher conferences, etc.
- 529A, B-1 to 4. SEMINAR IN STUTTERING BEHAVIOR. A: Emphasis on theoretical analysis. B: Emphasis on diagnostic and therapeutic procedures.
- 530-1 to 4. RESEARCH PROBLEMS IN SPEECH CORRECTION. Individual work upon selected problems for research.
- 531-1 to 4. SEMINAR IN EXPERIMENTAL PHONETICS. An investigation into the experimental approaches for the study of the phenomena of speech.
- 533-1 to 4. SEMINAR IN SPEECH SCIENCE. Special problems in voice science, and acoustic perception.
- 534-1 to 4. SEMINAR IN INSTRUMENTATION. Familiarity with instruments, their uses, capabilities, and limitations, as they apply to the study of speech and hearing.
- 536-1 to 4. SEMINAR IN ADMINISTRATION OF SPEECH AND HEARING PROGRAMS. A study of program settings, organizational procedures, and professional interrelationships in adult speech and hearing therapy. Field trips to rehabilitation centers and related agencies.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a master's degree.
- 600-3 to 48. DISSERTATION. Minimum of 36 hours to be earned for the Ph.D. degree.

THEATER

- 402A-4. PLAY DIRECTING. Selection of plays, casting, and methods of rehearsal. Development of characterization, control of tempo, and other techniques in the direction of plays.
- 402B-4. PLAY DIRECTING. A continuation of 402A.
- 403-4. AESTHETICS OF THE DRAMA AND THE THEATER. Principles and practice of modern dramatic production in the light of modern aesthetic theory. A course attempting to formulate an aesthetic judgment of the theater.
- 404-4. THEATER MANAGEMENT. Theater operational procedure, including both fundamental structuring and house management. The former aspect includes administration, purchasing, and accounting practices, ticket sales, publicity, promotion, and public relations. The latter aspect covers the management of box-office and ushering.
- 405A-4. THE SCENIC IMAGINATION. A study of the purely creative side of stage production. It includes an analysis of the script and its meaning for an audience; a poetic evaluation of the setting, costumes, and lighting; and the blocking out of the stage action.
- 405B-4. THE SCENIC IMAGINATION. Theater research and documentation; an approach to sketches and models; a review of the historic forms of

- staging, with emphasis on the modern styles from naturalism to epic theater.
- 411-4. **PLAYWRITING.** The writing of a full-length play forms the basis of the course. Individual conferences supplement the class discussion and analysis of student writing. Prerequisites: Theater 311 and consent of instructor.
- 412-4. **STAGE DESIGN.** The design of settings for the stage and other dramatic media. Prerequisite: 207.
- 432-4. **STAGE LIGHTING.** Instruments and control equipment; principles and techniques of lighting dramatic productions.
- 438-4. **CONTEMPORARY DEVELOPMENTS IN THE THEATER.** Critical study of theory and practice in acting, directing, production, and architecture in the modern theater. The rise and development of the film, radio, and television as dramatic media.
- 502-4. **ADVANCED DIRECTING.** Study of and practice in the techniques of directing period plays, verse plays, music dramas, arena productions, and other types and styles of plays presenting special directing problems.
- 503-4. **ADVANCED TECHNICAL PROBLEMS.** Solutions for problems presented by certain types of plays and modes of production. Study of drawing problems in the planning of floor plans, pictorial views, working drawings, and elevations.
- 509-4. **THE HIGH SCHOOL THEATER AND ITS PRODUCTION PROBLEMS.** Consideration of stages, machinery, equipment, light controls and instruments, production techniques, and analysis of basic needs of high school theater.
- 518-4. **THEATER AUDIENCE.** A course attempting to determine (1) the relations between the drama, *mise-en-scène*, and theater audience; and (2) the psychological nature of the spectator's experience in the theater.
- 519-2 to 12. **THEATER PRACTICUM.** Practical experience in acting, directing, and associated theater work on campus, on area tours, and in summer stock.
- 526-3. **SEMINAR IN THEATER ARTS.** Special problems of interest to the advanced student.
- 530-1 to 4. **RESEARCH PROBLEMS IN THEATER.** Individual work upon selected problems for research.
- 599-2 to 9. **THESIS.** Minimum of 5 hours to be counted toward a master's degree.

ZOOLOGY

- 401-5. **GENETICS.** (Same as Microbiology 402.) Principles of inheritance, including genetic mechanisms, mutation, and selection. Prerequisite: 12 quarter hours of biological science and consent of instructor.
- 402-4. **NATURAL HISTORY OF INVERTEBRATE ANIMALS.** Observation, identification, and life histories. Designed for teachers. Not for students specializing in invertebrate zoology. Prerequisite: one year of zoology.
- 403-4. **NATURAL HISTORY OF VERTEBRATE ANIMALS.** Observation, identification, and life histories. Designed for teachers. Not for students specializing in vertebrate zoology. Prerequisite: one year of zoology.

- 404-4 to 8. ZOOLOGY FIELD STUDIES. A trip of four to eight weeks to acquaint students with animals in various environments and/or with methods of field study, collection, and preservation. Arrangements made spring quarter. Cost per individual will be approximately \$25 per week. (Only 4 hours may be used for credit.) Prerequisite: consent of department.
- 405-4. ADVANCED INVERTEBRATE ZOOLOGY. Anatomy and natural history of representative types, with an introduction to the taxonomy of the various phyla. Prerequisite: one year of zoology.
- 406-4. PROTOZOOLOGY. (Same as Microbiology 406.) Taxonomy, cytology, reproduction, and physiology of unicellular animals. Laboratory methods of culturing and studying. Prerequisite: one year of zoology.
- 407-5. PARASITOLOGY. (Same as Microbiology 490.) Principles, collection, identification, morphology, life histories, and control measures. Prerequisite: one year of zoology.
- 408-4. HERPETOLOGY. Taxonomic groups, identification, and natural history of amphibians and reptiles. Prerequisite: one year of zoology.
- 410-4. VERTEBRATE PALEONTOLOGY. History of vertebrate animals in terms of their morphological change, geological succession, and ecological relationships. Prerequisite: one year of zoology.
- 412-4. ADVANCED ENTOMOLOGY. Morphology, physiology, systematics, and distribution of insects. Prerequisite: one basic course in entomology.
- 441-4. ADVANCED VERTEBRATE EMBRYOLOGY. Principles of development and organization of vertebrate animals during embryogenesis, with emphasis on mammalian forms. Prerequisite: 300.
- 459-4. GAME BIRDS. Natural history and management. Prerequisite: one year of zoology.
- 461-4. MAMMALOLOGY. Taxonomic groups, identification, and natural history of mammals. Prerequisite: one year of zoology.
- 463-4. GAME MANAGEMENT. General survey of management techniques. Prerequisites: one year of biological science, consent of instructor.
- 464-4. GAME MAMMALS. Natural history and management. Prerequisite: one year of zoology.
- 465-4. ICHTHYOLOGY. Taxonomic groups, identification, and natural history of fishes. Prerequisite: one year of zoology.
- 466-4. FISH MANAGEMENT. Sampling, dynamics, and manipulation of fish populations, age and growth of fishes, and habitat improvement. Prerequisites: one year of biological science, consent of instructor.
- 470-4. METHODS IN BIOLOGY. (Same as Botany 470.)
- 501-4. ANIMAL BIOLOGY FOR HIGH SCHOOL TEACHERS OF BIOLOGY. Designed to add new interpretations and evaluations to the in-service teacher's previous training in animal biology. Principles illustrated by laboratory and field work will be re-emphasized in the context of modern concepts of biology. Two lectures and two laboratory periods or field trips per week. Prerequisite: one year of biology.
- 502-2. RECENT DEVELOPMENTS IN BIOLOGICAL SCIENCES. A series of lectures based upon recent research, designed to acquaint the in-service teacher with advances and changes in concepts. Prerequisite: one year of biological science.
- 510-4. BIO-ECOLOGY. Composition and development of biotic communities,

- and the relationships of plants and animals to their environment. Cost of field trips may be \$10-\$25 per student. Prerequisite: consent of instructor.
- 511-4. LIMNOLOGY. Principles exemplified by the lakes and streams of Southern Illinois. Cost of field trips may be \$10-\$25 per student. Prerequisite: consent of instructor.
- 512-3. ANIMAL GEOGRAPHY. Principles of the distribution of the animals of the world. Prerequisite: consent of instructor.
- 513-3. ADVANCED ORNITHOLOGY. Taxonomic groups, structure, and behavior of birds. Prerequisite: consent of instructor.
- 525-5. CYTOLOGY. (Same as Botany 525.) Microscopic study of protoplasm, including mitosis and meiosis; discussions of cytological behavior. Prerequisite: consent of instructor.
- 540-3. FACTORS IN ANIMAL REPRODUCTION. Genetic and physiological factors in determination, differentiation, and modification of sex in animals. Prerequisite: consent of instructor.
- 560-3. ADVANCED GAME MANAGEMENT. Principles of maintenance and improvement of game resources. Prerequisite: consent of instructor.
- 566-3. FISH CULTURE. Propagation of game, bait, and ornamental species, hatchery-construction and operation, diagnosis and treatment of disease, and nutrition. Prerequisite: consent of instructor.
- 579-4. ANIMAL BEHAVIOR. The biological basis for the actions and responses of animals.
- 580-4. ADVANCED SYSTEMATICS. The implication of systematics, including the theory and dynamics of classification, speciation, population genetics, and evolution. Prerequisite: consent of instructor.
- 581-3. READINGS IN CURRENT ZOOLOGICAL LITERATURE. Library techniques, sources of literature, and current literature. Prerequisite: graduate status in a biological science.
- 582A, B, C-1/2. GRADUATE ZOOLOGY SEMINAR. Credit may not be used by majors in zoology.
- 583A, B, C-1. THE TEACHING OF ZOOLOGY IN COLLEGE. Methods and practices, objectives, comparative courses. Designed as part of the apprenticeship program for preparation of college teachers. Prerequisite: graduate status in a biological science.
- 584A-1, B-1, C-1. PROTOZOOLOGY SEMINAR. Advanced discussions of trends and problems in protozoology. Prerequisite: 406 or consent of instructor.
- 596-3 to 12. SPECIAL RESEARCH IN ZOOLOGY. Investigations in zoology other than those for theses. Only 3 hours may be credited toward a degree. Prerequisite: consent of instructor.
- 599-2 to 9. THESIS. Minimum of 5 hours to be counted toward a Master's degree.
- 600-3 to 48. RESEARCH AND DISSERTATION. At least 36 hours must be credited toward the doctoral degree. Prerequisite: consent of instructor.

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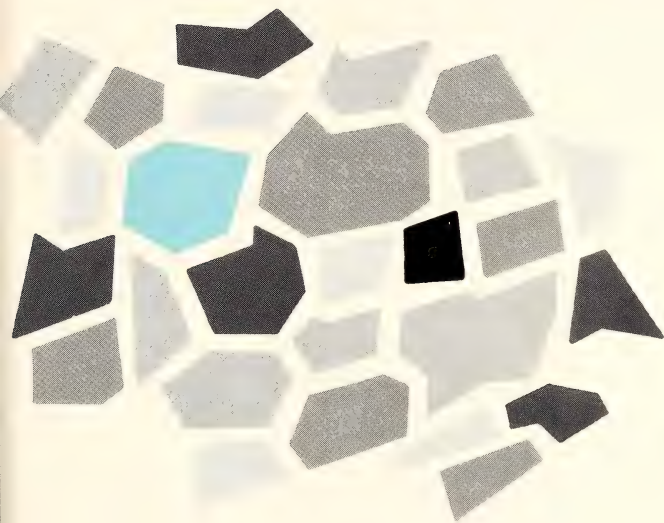
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Southern Illinois University

Bulletin



College of Education

CARBONDALE CAMPUS 1961-63

Objectives of Southern Illinois University

TO EXALT BEAUTY

IN GOD,
IN NATURE,
AND IN ART;
TEACHING HOW TO LOVE THE BEST
BUT TO KEEP THE HUMAN TOUCH;

TO ADVANCE LEARNING

IN ALL LINES OF TRUTH
WHEREVER THEY MAY LEAD,
SHOWING HOW TO THINK
RATHER THAN WHAT TO THINK,
ASSISTING THE POWERS
OF THE MIND
IN THEIR SELF-DEVELOPMENT;

TO FORWARD IDEAS AND IDEALS

IN OUR DEMOCRACY,
INSPIRING RESPECT FOR OTHERS
AS FOR OURSELVES,
EVER PROMOTING FREEDOM
WITH RESPONSIBILITY;

TO BECOME A CENTER OF ORDER AND LIGHT

THAT KNOWLEDGE MAY LEAD
TO UNDERSTANDING
AND UNDERSTANDING
TO WISDOM.

College of Education

Announcements for 1961-1963



SOUTHERN ILLINOIS UNIVERSITY BULLETIN
Volume 3 Number 10 November, 1961
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The following issues of the *Southern Illinois University Bulletin* may be obtained without charge from General Publications, Southern Illinois University, Carbondale, Illinois.

General Information
Summer Session (Carbondale)
Summer Session (Edwardsville)
Schedule of Classes (Carbondale)
Schedule of Classes (Edwardsville)
General Announcements (Edwardsville)
Graduate School
College of Education
College of Liberal Arts and Sciences
School of Agriculture
School of Applied Science
School of Business
School of Communications
School of Fine Arts
School of Home Economics
University Institutes
Division of Technical and Adult Education

All intending students should have the General Information Bulletin (issued once a year), plus the special bulletins of the various educational units in which they are most interested.

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This Bulletin . . .

covers in detail questions concerning the College of Education. It does not cover all questions concerning Southern Illinois University. For complete information about the University the prospective student should refer to the General Information bulletin.

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University Calendar, 1961-1962

SUMMER SESSION

Session Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Final Examinations	Wednesday–Thursday, August 9–10
Commencement	Friday, August 11

FALL QUARTER

New Student Week (Carbondale)	Sunday–Tuesday, September 17–19
New Student Week (Edwardsville)	Saturday–Sunday, September 16–17
Quarter Begins	Wednesday, September 20
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 22–27
Final Examinations	Monday–Saturday, December 11–16

WINTER QUARTER

Quarter Begins	Tuesday, January 2
Final Examinations (Carbondale)	Monday–Saturday, March 12–17
Final Examinations (Edwardsville)	Wednesday–Monday, March 14–19

SPRING QUARTER

Quarter Begins	Monday, March 26
Memorial Day Holiday	Wednesday, May 30
Final Examinations	Wednesday–Tuesday, June 6–12
Commencement (Carbondale)	Wednesday, June 13
Commencement (Edwardsville)	Thursday, June 14

Summer classes begin on Tuesday, June 20. During a quarter, Carbondale day classes begin on the second day of the quarter. Carbondale evening classes (5:45 P.M. or later) begin on the first day. Classes on the Edwardsville campuses begin on September 21, January 4, and March 28.

University Calendar, 1962-1963

SUMMER SESSION

Session Begins	Monday, June 18
Independence Day Holiday	Wednesday, July 4
Final Examinations	Wednesday–Thursday, August 8–9
Commencement	Friday, August 10

FALL QUARTER

New Student Week	Friday–Sunday, September 21–23
Quarter Begins	Monday, September 24
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 21–26
Final Examinations	Wednesday–Tuesday, December 12–18

WINTER QUARTER

Quarter Begins	Wednesday, January 2
Final Examinations	Wednesday–Tuesday, March 13–19

SPRING QUARTER

Quarter Begins	Wednesday, March 27
Memorial Day Holiday	Thursday, May 30
Final Examinations	Thursday–Wednesday, June 6–12
Commencement	Thursday, June 13

Summer classes will begin on Tuesday, June 19. During the fall, winter, and spring quarters, day classes will begin on the second day of the quarter. Evening classes (5:45 p.m. or later) will begin on the first day of the quarter.



The University

SOUTHERN ILLINOIS UNIVERSITY was established in 1869 as Southern Illinois Normal University. The shortened name became official in 1947 by action of the state legislature.

For some years after its establishment, Southern operated as a two-year normal school. In 1907 it became a four-year, degree-granting institution, though continuing its two-year course until 1936. In 1943 the state legislature changed the institution, which had been in theory exclusively a teacher-training school, into a university, thereby taking official recognition of the great demand in the area for diversified training.

The Graduate School, approved in 1943, at first granted only the Master of Science in Education degree. In 1948 it was authorized to grant also the Master of Arts and Master of Science degrees. In 1952 the Master of Fine Arts degree was added to this list, and in 1955 the Doctor of Philosophy degree was added. The Master of Music and the Master of Music Education degrees were authorized in 1956.

In 1949 the Belleville Residence Center was established and the Alton and East St. Louis residence centers in 1957. In 1958 the Southwestern Illinois Residence Office was created to co-ordinate and direct the University's educational activities in the Madison-St. Clair counties area. In 1959 the Southwestern Illinois Campuses were recognized as a unit co-ordinate with the Carbondale campuses.

LOCATION

The general administrative offices for the University's campuses at Carbondale, Southern Acres, and Little Grassy Lake are located at Carbondale. The central administrative offices directing the University's educational programs at Alton and East St. Louis are located at Edwardsville.

The facilities at Carbondale now include more than twenty-five

hundred acres of land, thirty-six permanent buildings, and numerous temporary buildings. These buildings house classrooms, auditoriums, laboratories, libraries, offices, living quarters, cafeterias, and farm equipment and animals. The Little Grassy Lake and Southern Acres campuses are each about ten miles from Carbondale.

The facilities of the former Shurtleff College have been leased by the University for the operation of the Alton campus. The East St. Louis campus is located at the former East St. Louis High School building.

SESSIONS

The academic year is divided into three quarters. Each quarter is approximately twelve weeks in length.

The fall quarter opens near the middle of September and closes just prior to the Christmas vacation period. The winter quarter begins early in January and ends about the middle of March. The spring quarter begins the latter part of March and ends about the second week in June. Definite dates for each quarter may be found in the University Calendar.

In addition to the three quarters, there is an eight-week summer session which begins immediately following the close of the spring quarter. The summer session consists of a comprehensive program of courses offered by the departments of the University. In addition to the courses which run the full eight weeks, there are workshops and short courses covering shorter periods of time.

REGULATIONS

The University and its various instructional units reserve the right to change the rules regulating admission, instruction, and graduation; to change courses and fees; and to change any other regulation affecting the student body. Such regulations shall go into force whenever the proper authorities so determine, and shall apply both to prospective students and to those who have enrolled in the University.

Each student must assume responsibility for his progress by keeping an up-to-date record of the courses he has taken and by checking periodically with his adviser and the Registrar's Office. Responsibility for errors in program or in interpretation of regulations of the University rests entirely upon the student. Advice is always available on request.

A copy of the regulations governing student life may be obtained from the Office of Student Affairs on the campus which the student attends.

College of Education

SOUTHERN ILLINOIS UNIVERSITY was founded as an institution of higher learning to encourage teacher preparation in downstate Illinois in the years following the Civil War. The growth of the institution was such that by 1943 the need for a graduate program in Southern Illinois was apparent, and teacher preparation functions were assembled in the College of Education, established in 1945.

The basic aim of the College of Education is the preparation of professional workers in the field of education and allied community services; teachers of all levels from kindergarten through college; educational administrators, supervisors, directors, guidance personnel, and other specialists.

Through co-operation with many other divisions of the University, the College of Education provides the classroom teacher with a basic knowledge of his special field; observation, practice, and laboratory experience link theory with application at each level.

Administrators, supervisors, and directors of special programs are expected to be professional leaders in school and community. The preparation of such specialists focuses on developing the knowledge and skills required for this leadership.

Beyond the immediate demands of our public schools, the College of Education recognizes a responsibility to prepare through advanced study those who will become teachers of teachers, directors of teacher education programs, college administrators, and research specialists. The College of Education is accredited by the North Central Association of Colleges and Secondary Schools, and by the National Council for Accreditation of Teacher Education.

PROFESSIONAL SERVICES

The College of Education has a responsibility to provide services of three general kinds: (1) to prepare effective professional workers for the public schools of the state; (2) to have its faculty participate fully in the effort to improve higher education in the state and nation; (3) to respond to the needs and requests of groups that are interested in the growth of Southern Illinois. Moreover, it has a continuing dedication to promoting that growth through visitation of schools and consultation with teachers, school officers, and citizens.

RESEARCH

The College of Education recognizes its obligation to conduct and to promote research of two kinds: (1) surveys and planning in the area, especially where industry, social agencies, communities, or schools can benefit from the findings of such surveys; and (2) basic research which will make significant and continuous contributions to the factual foundations of education. This involves the training of competent research workers on the graduate level. It also involves continuous dissemination of the results of productive investigations by staff members.

EDUCATIONAL RESEARCH BUREAU

The Educational Research Bureau began as Educational Research Services in the College of Education in the fall of 1951. This function was a direct outgrowth of a specific suggestion by the school administrators of Southern Illinois who recommended the establishment of a research service by the College of Education to work with the schools of Southern Illinois in connection with their problems and school reorganization plans, curricula, etc. In 1958, the name was changed to the Educational Research Bureau.

The major functions performed by the Bureau are (1) to assist the public schools of this state, and Southern Illinois in particular, by making available consultant service on specific local problems or through the approach of comprehensive school surveys; (2) to assist the dean of the College of Education by performing such research as is deemed advisable to facilitate the plans and programs of the college; (3) to participate with other university groups in inter-disciplinary research projects; and (4) to

give advice and aid on research to other staff members in the College of Education when requested.

School administrators, school boards, and other individuals interested in further information concerning the bureau regarding consultant services or school surveys may consult Dr. Jacob O. Bach, head of the bureau.

PROGRAMS OF INSTRUCTION

At Southern Illinois University a high school graduate looking for a career in the educational world can prepare for high school, elementary, or early-childhood teaching; for coaching; for positions in school administration; for guidance work; for teaching and supervising special education; and for other community services. He can prepare to teach in special fields such as art, music, home economics, industrial arts, business, and agriculture. He can prepare to be a teacher of business, English, foreign languages, mathematics, science, social studies, and others. He can develop teaching competence in such fields as speech correction and general speech. He can dedicate himself, if he wishes, to the teaching of mentally handicapped children, the hard of hearing, and the partially sighted. Physical education as a field attracts many able men and women, as do such newer fields as recreation and outdoor education. The graduate may look for a career in health education or in school counseling. He may prepare to be a principal or a superintendent by going on with graduate work, or even to be a teacher of teachers in some college or university. Moreover, the new Department of Higher Education provides opportunity to prepare for administrative posts in colleges and universities.

The College of Education grants the Bachelor of Science in Education and the Bachelor of Music Education degrees.

STUDENT ORGANIZATIONS

STUDENT EDUCATION ASSOCIATION

The Student Education Association was founded in 1939 as the Egyptian Chapter of Future Teachers of America. It was the first F.T.A. chapter in the state of Illinois. Since that time various staff members from the College of Education have served as sponsors. In the fall of 1958, the name of the organization was changed to the Student Education Association in line with the suggestion of the National Education Association, its parent body.

The Student Education Association is the professional organization for college or university students preparing to teach. Each member is a student member of his state education association and the National Education Association with all the rights, privileges, and responsibilities of associate membership in these professional organizations.

The purposes of the Egyptian Chapter of the Student Education Association are (1) to develop personal and professional competence; (2) to gain an understanding of the organized teaching profession; (3) to participate in co-operative work on the problems of the profession in the community; (4) to encourage active professional membership on the local, state, national, and world level; and (5) to provide experiences which will interest capable students in teaching as a career.

ASSOCIATION FOR CHILDHOOD EDUCATION

The student branch of the Association for Childhood Education is sponsored by the Department of Elementary Education. Membership is open to all persons, students and faculty, who are concerned with children from two to twelve years of age.

Some purposes of the organization are to study desirable conditions, programs, and practices in the schools; to stimulate interaction between professional people and groups; and to work for the education and well-being of all children.

KAPPA DELTA PI

Kappa Delta Pi is an honor society in education for juniors, seniors, and graduate men and women who have achieved a scholastic average of 4.5 in education and a 4.25 over-all average. It is a national organization, which grew from a small group dedicated to improving the quality of teaching to its present hundreds of chapters over the United States. The local chapter, Delta Chi, was installed at Southern in 1937.

PHI DELTA KAPPA

Phi Delta Kappa is the largest and oldest professional fraternity for men in education. It is an association for good fellowship and the achievement of certain common professional goals.

The chief purpose of Phi Delta Kappa is to promote free public education as an essential to the development and maintenance of a democracy, through the continuing interpretation of the ideals of research, service,

and leadership. It is the purpose of Phi Delta Kappa to translate these ideals into a program of action appropriate to the needs of public education.

PI LAMBDA THETA

Pi Lambda Theta is a national honor organization for women in education. Pi Lambda Theta seeks to maintain the highest standards of scholarship and professional preparation; to further the cause of democratic education; to encourage intellectual understandings; to stimulate participation in local, state, national, and international problems; and to promote graduate work and research. To be eligible for membership a student must be a woman of at least junior standing and enrolled in the field of education. She must have an academic average equal to the highest one-fourth of all women in the College of Education. She must be recommended by two faculty members and be sponsored by a member of the organization.

ADMISSION TO THE COLLEGE

Admission to the College of Education should be initiated through the University's Admissions Office. Application for admission should be initiated at least thirty days in advance of the desired entrance date. High school seniors should start the admission process during the first semester of their senior year, but their formal admission will not be considered until after receipt of the high school record showing completion of the seventh semester of high school work.

COMPLETE DETAILS concerning admission, tuition, fees, housing, financial assistance, and student employment are given in the General Information bulletin. For a free copy write to General Publications, Southern Illinois University, Carbondale, Illinois.

TUITION AND FEES

At the present time legal residents of Illinois registered for more than eight hours pay a total of \$61.50 per quarter. This includes \$42.00 tuition, a \$5.00 book rental fee, a \$5.00 student union building fund fee, and a \$9.50 student activity fee. Out-of-state students pay an additional \$50.00

tuition, or a total of \$111.50. Students registered for eight hours or fewer pay one-half tuition, one-half book rental fee, and full student union building fund fee; they have the option of paying the student activity fee.

ADVISEMENT

In order to insure that an undergraduate student is properly advised concerning the course of study which will fulfill the general University requirements and prepare him for his chosen career, academic advisement has been made the special responsibility of a selected group from the teaching faculty. The College of Education has a chief academic adviser and a number of assistant advisers.

REQUIREMENTS FOR THE BACHELOR'S DEGREE

Although the following requirements should be met by degree candidates of all colleges and divisions, it should be noted that the general degree requirements of the University have been undergoing intensive study with a view to giving the students of the University further options and providing them with a more effective background not only for their professional careers but also for their standing as citizens in the communities to which they go after graduation. At such time as these new requirements can be published, all students will be notified and the transition from the old system of requirements to the new will be handled with as little inconvenience as possible to all concerned.

Each candidate for the degree must complete 192 hours of credit in approved courses. At least 64 must be in senior college courses, of which 48 must be earned at Southern, 16 of which may be earned in extension from Southern. Each student must have a "C" average, and grades not lower than "C" in subjects aggregating at least three-fourths of the work. A "C" average is required in the major subject. These minimum averages are required for the credit made at Southern as well as for the total record.

Throughout this bulletin, hours of credit are *quarter hours* except where otherwise indicated. One quarter hour is two-thirds of a semester hour.

Except for Bachelor of Music Education and Bachelor of Music degree students, the following requirements should be met by all bachelor's degree candidates of the University within the first two years of attendance.

REQUIREMENTS	HOURS	COURSES
Social Studies	20	Economics 205, Geography 100, 300, Government 101, 190, 300, History 101, 102, 103, 201, 202, Sociology 101 (work in four of the five departments)
Humanities	18	
English	(9)	English 101, 102, 103
English	(6)	English 205, 206, 209, 211, 212
Art or Music	(3)	Art 120, Music 100
Biological Sciences	9	
Health Education	(4)	Health Education 100
Botany or Zoology	(5)	Botany 101, 102, 202, Zoology 100
Mathematics and Physical Sciences	12	Chemistry, physics, and mathematics (work in two of the three departments)
Practical Arts and Crafts	3	Agriculture, business administration, home economics, industrial education (not required if the student has had any of this work in high school)
Physical Education	6	Activity courses
Air Science (Men only)	3	Air Science 110, 210, 220, six quarters of leadership laboratory, and three elective courses must be satisfactorily completed before this requirement is fulfilled.
TOTAL	71	

TEACHING CERTIFICATES

Students preparing to teach in the public schools of Illinois should note that new teacher certification regulations will be in effect July 1, 1963. Students completing their work prior to then should attempt to meet the new regulations even though their certifications will be governed by the regulations currently in effect.

The certification regulations listed in this bulletin are those which will be in effect on July 1, 1963, and thereafter. Students seeking certification in the meantime will be held to those requirements appearing in the 1959-61 College of Education bulletin. Requirements for the State Elementary School Certificate are listed under the Department of Elementary Education; those for the State Secondary School Certificate and the

State Junior College Certificate are listed under the Department of Secondary Education; those for the State Special Certificate are listed below.

Students planning to teach on the early childhood and elementary levels register in the College of Education. Most students planning to teach on the high school level also register in this college. However, it is possible for a student to be registered in one of the other colleges or schools and meet the state requirements for a secondary school certificate by using as his electives certain prescribed courses in the College of Education. This is also true in the case of those seeking to qualify for a special certificate.

Students qualifying for teaching certificates in Illinois should also know that no certificate issued after July 1, 1953, will be renewed for the first time unless the person holding the certificate passes an examination to the satisfaction of the certificating authority upon the provisions and principles of the Constitution of the United States and of the state of Illinois. The requirement is satisfied by the passing of Government 101 or 300 or History 201 or 330.

STATE SPECIAL CERTIFICATE

A student desiring a State Special Certificate must meet the following state requirements.

1. Graduation from a recognized institution of higher learning with a bachelor's degree.
2. Recommendation of the institution of which the person is a graduate.
3. Minimum course work as follows:
 - a. Sixty-three quarter hours in general education with 12 hours in language arts, 9 in science, 9 in social science including a course in American history and/or government, 9 in humanities, 6 in mathematics, 6 in health and physical education, 3 in general psychology, and 9 additional in any of these fields;
 - b. Twenty-seven quarter hours in professional education with 3 hours in educational psychology, including human growth and development, 3 in methods and techniques of teaching, 3 in history and philosophy of education, 3 in guidance and/or tests and measurements, 7.5 in student teaching in area of specialization, 3 in instructional materials, and 4.5 in elective hours in professional education;
 - c. Forty-eight quarter hours in the area of specialization (courses which are counted as general education may also be counted as part of the hours required in the area of specialization where applicable);
 - d. Elective hours sufficient for graduation (minimum of 180 quarter hours required regardless of the institution).

Instructional Units

EDUCATIONAL ADMINISTRATION AND SUPERVISION

Professor George E. Axtelle, Ed.D. (University of California)	1959
Professor P. Roy Brammell, Ph.D. (University of Washington)	1960
Professor Roye R. Bryant, Ed.D. (Washington University)	1948
Professor Eugene S. Lawler, Ph.D. (Columbia)	1961
Professor Arthur E. Lean, Ph.D. (Michigan)	1957
Professor Bruce W. Merwin, Ph.D. (Kansas), (Emeritus, 1957)	1927
Professor Charles D. Neal, Ed.D. (Indiana)	1948
Professor F. G. Warren, A.M. (Chicago), (Emeritus, 1959)	1913
Associate Professor Jacob O. Bach, Ph.D. (Wisconsin)	1951
Associate Professor Harlan D. Beem, Ed.D. (Illinois)	1956
Associate Professor George Bracewell, Ed.D. (Washington University), Acting Chairman	1931
Associate Professor Woodson W. Fishback, Ph.D. (Chicago)	1948
Associate Professor James Herrick Hall, Ed.D. (George Washington)	1952
Instructor Raymond L. Foster, M.A. (Missouri)	1955
Instructor Herall C. Largent, M.S. in Ed. (Illinois)	1960
Instructor Herbert W. Wohlwend, M.S. in Ed. (Southern Illinois)	1958
<hr/>	
Visiting Professor A. S. Barr, Ph.D. (Wisconsin)	1960-61
Visiting Professor John L. Childs, Ph.D. (Columbia)	1959-60
Visiting Professor Ray L. Hamon, Ph.D. (Columbia)	1960-61
Visiting Professor Clyde R. Miller, M.A. (Columbia)	1959-60
Adjunct Professor William E. Sheldon, Ph.D. (Chicago)	1951
Lecturer Nebraska Mays, M.S. in Ed. (Southern Illinois)	1960-62
Lecturer Dean E. Tollefson, M.S. in Ed. (Southern Illinois)	1961-62

This department includes introductory courses and basic offerings in administration, supervision, and curriculum as well as in the social and philosophical foundations of education and advanced courses and seminars in these areas. The emphasis is mainly on graduate work toward the master's degree, the sixth year specialist's certificate, and the doctorate.

Persons desirous of pursuing such programs should first familiarize themselves with the basic requirements of each as set forth in the Graduate School bulletin.

COURSE DESCRIPTIONS

- 100-3. INTRODUCTION TO TEACHING. A thorough investigation of the factors which should be involved in a student's consideration of teaching as a career.
- 331-3. THE AMERICAN EDUCATIONAL SYSTEMS. A comprehensive study of the structure, financing, and administration of American public school systems, made from the teacher's point of view.
- 355-4. PHILOSOPHY OF EDUCATION. The philosophical principles of education and the educational theories and agencies involved in the work of the schools.
- 355A-3. PHILOSOPHIC ISSUES IN MODERN EDUCATION. Specific current problems examined in philosophic perspective: liberal vs. professional education; general vs. vocational education; academic freedom; objectives and functions of education; scholastic standards; religious and racial problems; other problems suggested by students. Not open to students who have taken 355 or to students enrolled in the College of Education.
- 420-4. LEGAL BASIS OF AMERICAN EDUCATION. Legal concepts governing education in the United States. Particular emphasis is placed on common-law principles.
- 424-4. SCHOOL ADMINISTRATION. Designed primarily for those who look forward to positions as supervisors, principals, or superintendents.
- 431-3. HISTORY OF EDUCATION IN THE UNITED STATES. A historical study of the problems of American education which have relevance to contemporary education.
- 432-4. PUBLIC OPINION, PROPAGANDA, AND EDUCATION. Analysis and classification of propaganda. Designed to show how public opinion is formed by a use of current materials from the different channels of communication. Differences between propaganda and indoctrination.
- 456-4. SCHOOL SUPERVISION. The function of the principal or supervisor in the improvement of instruction. Some activities, methods, and devices for improving the effectiveness of teaching.
- 460-4. CURRICULUM. Modern practices and procedures in curriculum development, with attention to the professional, social, economic, and other major factors in curriculum planning.

Courses on the 500 level are for graduate students only.

- 500-4. RESEARCH METHODS. Practical training in research and writing

techniques in the field of education. Bibliographical materials, footnotes, use of the library. Recommended that students have had Guidance 420, 421, or 422.

- 501-4. SEMINAR IN EDUCATIONAL ADMINISTRATION. Special study of administrative problems. For advanced graduate students.
- 502-4. SEMINAR IN COMPARATIVE EDUCATION. Educational ideas and practices of various countries of the world, both Eastern and Western, and their impact upon our culture and education.
- 503-4. SEMINAR IN PHILOSOPHY OF EDUCATION. An interpretation of modern educational problems and trends in the light of basic philosophical viewpoints. Excerpts from leading writings will be used.
- 504-4. SEMINAR IN HISTORY OF EUROPEAN EDUCATION. A survey and interpretation of education in Europe from the Greek era to the present. Stresses the relationship of European to American education.
- 506-4. CURRICULUM IN RELATION TO AMERICAN CULTURE. The effect of historical movements on curriculum in our nation at all age and grade levels, continued on a more intensive basis as applied to present-day curricular patterns.
- 511-4, 512-4, 513-4. INTERNSHIP PRACTICUM. Courses of instruction relating to the study of theory and practical experience, both being carried on simultaneously in conjunction with a co-operating public school and the College of Education. Open only to students who have been admitted to the internship program.
- 520-4. ILLINOIS SCHOOL LAW. Study of the legal aspects of Illinois public education with principal emphasis on statutory law and its interpretation by the courts. Prerequisite: 420 or Government 499.
- 527-4 to 6. ADMINISTRATIVE PROBLEMS OF SMALL SCHOOLS. A field laboratory course for principals and superintendents, both elementary and secondary, focused upon specific problems presented by the students. Two days a week devoted to visiting schools in the area, and the remaining days spent in research and in seminar. Problems of plant construction and maintenance, budgeting, evaluation, curriculum, classroom organization, office practice, and administration. Specialists used as consultants when possible. Limited to administrators.
- 533-4. SCHOOL BUILDINGS. Various phases of physical plant design and maintenance of concern to the school administrator.
- 534-4. SCHOOL FINANCE. Fiscal administration of public education at the national, state, and local levels. Prerequisite: 424.
- 535-4. RESEARCH IN PROBLEMS OF ADMINISTRATION. An intensive four-week course for school principals on theory and principles of administration for small schools, special administrative problems, school plant evaluation, curriculum revision, class scheduling, budgeting and school accounting, community relationships, supervision, pupil accounting, and evaluation of instructional services.
- 539-4. COMMUNITY DEVELOPMENT THROUGH THE SCHOOL. Comprehensive survey of the resources of a particular community; the cataloguing of material for use by the teachers of the community to help determine needed curriculum changes.
- 551-4, 552-4, 553-4. PHILOSOPHIC PROBLEMS OF CONTEMPORARY

- CIVILIZATION. An examination of the crisis in contemporary civilization, the reconstruction of ideas and values involved, and an analysis of crucial problems in terms of their intellectual reconstruction. Cross-listed with Department of Philosophy.
- 554-4. CONTRASTING PHILOSOPHIES OF EDUCATION. Deals both historically and contemporaneously with the ideologies which have developed from different concepts of education.
- 555-4. PHILOSOPHICAL FOUNDATIONS OF EDUCATION. A course examining, in the primary sources, the basic concepts which have influenced and are influencing modern education. Not open to students who have had 355.
- 556-4. SEMINAR IN EDUCATIONAL SUPERVISION. Special research problems in supervision, for advanced graduate students. Prerequisite: 456.
- 563-4. SCHOOL PUBLIC RELATIONS. To meet the needs of teachers, supervisors, and administrators in the area of public relations.
- 575A to K-2 to 4. INDIVIDUAL RESEARCH. Selection, investigation, and writing of a research topic under the personal supervision of a member of the departmental graduate faculty. By special arrangement.
- 589-2 to 12. GENERAL SEMINAR. (Same as Philosophy 589.)
- 596-5 to 9. INDEPENDENT INVESTIGATION. Field study required of each student working for the sixth-year professional certificate.
- 597-1 to 3, 598-1 to 3, 599-1 to 3. THESIS.
- 600-1 to 48. DISSERTATION.

ELEMENTARY EDUCATION

Professor Robert Karlin, Ph.D. (New York University)	1959
Professor J. Murray Lee, Ph.D. (Columbia), Chairman	1958
Professor Willis E. Malone, Ph.D. (Ohio State)	1939
Professor Ted R. Ragsdale, Ph.D. (St. Louis)	1925
Professor Victor Randolph, Ph.D. (George Peabody)	1935
Associate Professor Rebecca E. Baker, Ph.D. (Iowa)	1957
Associate Professor Ernest E. Brod, Ed.D. (Colorado State College)	1951
Associate Professor Clyde M. Brown, Ed.D. (Missouri)	1951
Associate Professor Mary E. Entsminger, M.A. (Columbia) (Emerita, 1956)	1922
Assistant Professor Luther E. Bradfield, Ed.D. (Indiana)	1955
Assistant Professor Harold H. Lerch, Ed.D. (Illinois)	1960
Assistant Professor Ruby Van Trump, A.M. (George Peabody) (Emerita, 1958)	1928
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Lecturer Justine T. Stephens, B.S. in Ed. (Southern Illinois)	1960
Lecturer Katherine Vineyard, M.S. in Ed. (Southern Illinois)	1961

The Department of Elementary Education offers undergraduate curricula leading to the Bachelor of Science in Education degree. Completion of the requirements for the degree qualifies one for the Limited State Elementary Certificate.

A student specializes either in early childhood education or in elementary education. In addition to general university and College of Education requirements a student must (1) meet all requirements pertaining to prerequisites to student teaching and should study the section in this bulletin which lists such requirements; and (2) have at least twenty-four hours in each of these three fields; language arts, science, social science.

Students interested in programs on the master's or doctoral level should consult the Graduate School bulletin.

Following are the requirements for the Bachelor of Science in Education degree with a major in elementary education and meeting the minimum requirements for a State Elementary School Certificate on either the early childhood level or the elementary level.

EARLY CHILDHOOD EDUCATION

State Minimum Requirements ¹ (Statutes or Certifying Board Regulations)	HOURS	Southern Illinois University Requirements Based Upon, or in Addition to, State Minimum Requirements
I. General Education	63	
a. Language Arts	12	English 101, 102, 103, and 300 or 391; plus 6 hours selected from English 205, 206, 209, 211, 212; plus Speech 101, plus hours to equal 6 in speech.
b. Science	9	5 hours selected from Botany 101, 131, 202, or Zoology 100; plus 4 hours chem- istry or physics; plus 15 hours elective in sciences, which may include Agricultural Industries 310; Plant Industries 301, 305, and Forestry 361.
c. Social Science (including a course in American History and/or Government)	9	History 201 or 202; Government 101 or 231 or 300; plus 5 hours in social geog- raphy; plus 5 hours in economics or sociology; plus hours to equal 24.
d. Humanities	9	Art 120 or Music 100; Art 300; 3 quarters

¹In addition to the above hour and course requirements a student must have been graduated by a recognized institution of higher learning with a bachelor's degree, and must be recommended by the institution.

		of Music 040; ² and Music 300B; plus elective hours to equal 18.
e. Mathematics	6	8 hours mathematics (4 hours must be Mathematics 210).
f. Health and Physical Education	6	Health Education 100; plus 6 hours in physical education activity; plus Physical Education for Women 318.
g. General Psychology	3	Psychology 201.
h. Additional hours in the above fields	9	Secretarial and Business Education 113. ³
II. Education (Professional) ..	27	Courses specified below; plus hours equal to 48 selected from approved professional education electives listed below.
a. Educational Psychology, including human growth and development	3	Guidance 305 or Psychology 301.
b. Methods and techniques of teaching	3	Elementary Education 309, 316.
c. History and philosophy of education	3	Educational Administration and Supervision 355.
d. Guidance and/or tests and measurements	3	Guidance 422.
e. Student Teaching (Elementary level)	7.5	Student teaching 16 hours (to be done on both kindergarten and primary levels).
f. Methods of teaching reading	3	Elementary Education 337.
g. Instructional Materials ..	3	Instructional Materials 417.
h. Additional work in professional education	1.5	Educational Administration and Supervision 100 or 331.
III. Areas of preparation directed toward teaching in the elementary school	54	Approved professional education electives: All elementary education courses; Instructional Materials 417, 445, 457; Instructional Materials 405 or Elementary Education 313; Guidance 305, 412, 420, 422, 442; Psychology 301; Special Education 200 or 414, 410, 412, 420; and Speech Correction 428.
IV. Electives	36	This requirement met in the listing above under general education.

² The three-hour requirement in Music 040 may be waived by the student's satisfactory passing of a performance test.

³ Unless a student can pass a minimum speed test of 25 net words per minute, he will be required to take Secretarial and Business Education 102 as a prerequisite to Secretarial and Business Education 113.

ELEMENTARY EDUCATION

State Minimum Requirements ¹ (Statutes or Certifying Board Regulations)	HOURS	Southern Illinois University Requirements Based Upon, or in Addition to, State Minimum Requirements
I. General Education	63	
a. Language Arts	12	English 101, 102, 103, 391, ⁴ plus 6 hours selected from English 205, 206, 209, 211, 212, plus Speech 101, plus hours to equal 24.
b. Science	9	5 hours selected from Botany 101, 131, 202, or Zoology 100, 101, 105; plus 4 hours chemistry or physics; plus 15 hours elective in sciences, which may include Agricultural Industries 310; Plant Indus- tries 301, 305, and Forestry 361.
c. Social Science (including a course in American History and/or Government)	9	History 201, 202; Government 101 or 300 and/or 231; plus 5 hours in social geog- raphy; plus 5 hours in economics or sociology; plus hours to equal 24.
d. Humanities	9	Art 120 or Music 100; Art 300; 3 quarters of Music 040; ² and Music 300B; plus elec- tive hours to equal 18.
e. Mathematics	6	8 hours mathematics (4 hours must be Mathematics 210).
f. Health and Physical Education	6	Health Education 100; plus 6 hours in physical education activity; plus Physical Education for Women 318.
g. General Psychology	3	Psychology 201.
h. Additional hours in the above fields	9	
II. Education (Professional) ..	27	
a. Educational Psychology, including human growth and development	3	Courses specified below; plus hours to equal 48 selected from approved profes- sional education electives listed below. Guidance 305 or Psychology 301.
b. Methods and techniques of teaching	3	Elementary Education 314.

¹In addition to the above hour and course requirements a student must have been graduated by a recognized institution of higher learning with a bachelor's degree and must be recommended by the institution.

²The three-hour requirement in Music 040 may be waived by the student's satisfactory passing of a performance test.

⁴Students who have completed English 300 will not take English 391.

c. History and philosophy of education	3	Educational Administration and Supervision 355.
d. Guidance and/or tests and measurements	3	Guidance 422.
e. Student Teaching (Elementary level)	7.5	Student teaching 12 hours (8 must be elementary).
f. Methods of teaching reading	3	Elementary Education 337.
g. Instructional Materials ..	3	Instructional Materials 417.
h. Additional work in professional education	1.5	Educational Administration and Supervision 100 or 331.
		Approved professional education electives: All elementary education courses; Instructional Materials 417, 445, 457; Instructional Materials 405 or Elementary Education 313; Guidance 305, 412, 420, 422, 442; Psychology 301; Special Education 200 or 414, 410, 412, 420; and Speech Correction 428.
III. Areas of preparation directed toward teaching in the elementary school	54	This requirement met in the listing above under general education.
IV. Electives	36	

COURSE DESCRIPTIONS

- 000-0. **READING AND STUDY TECHNIQUES.** A "service" course to aid students in improving reading and study skills. Time schedules, general principles of effective study, improving reading, making notes, etc.
- 203-3. **UNDERSTANDING THE ELEMENTARY SCHOOL CHILD.** Concepts needed to understand the child in the elementary school situation. Two hours of lecture and two hours of observation. Prerequisite: Psychology 201.
- 309-4. **KINDERGARTEN-PRIMARY SOCIAL STUDIES METHODS.** The objectives and methods of teaching social studies at the kindergarten-primary level, culminating in the planning of a unit of work. Prerequisite: 316.
- 313-4. **CHILDREN'S LITERATURE.** Emphasizes types of literature, analysis of literary qualities, selection and presentation of literature for children. Not for students who have had English 213. Prerequisite: Guidance 305.
- 314-4. **ELEMENTARY SCHOOL METHODS.** The fundamental principles of education, the interpretation of current educational theory and practice, the processes of teaching and learning involved in elementary education. Prerequisite: Guidance 305.
- 316-4. **KINDERGARTEN-PRIMARY METHODS AND CURRICULUM.** Philosophy and principles underlying the teaching of four-to-eight-year-olds. Emphasis upon organization, equipment, materials and methods for promoting growth of young children. Prerequisite: Guidance 305.

- 337-4. **READING IN THE ELEMENTARY SCHOOLS.** The principles of reading, factors that condition reading, together with grade placement of aims and materials; diagnostic and remedial treatment. Prerequisite: 314.
- 350B, 350C-16. **KINDERGARTEN-PRIMARY STUDENT TEACHING.** (See Department of Student Teaching.)
- 351A, 351B, 351C-4 to 16. **ELEMENTARY STUDENT TEACHING.** (See Department of Student Teaching.)
- 401-2. **PROBLEMS IN PUBLIC SCHOOL READING.** Requirements: attendance at all sessions of a reading conference; preparation of a paper showing practical applications of theory to the student's own teaching situation. Summer.
- 410-4. **IMPROVEMENT OF INSTRUCTION IN ARITHMETIC IN KINDERGARTEN-PRIMARY GRADES.** Recent findings and current practices in building a basis for quantitative thinking in early childhood education. Special emphasis upon grade placement of content and of techniques to aid children in understanding of the number system. Prerequisite: Mathematics 210.
- 411-4. **SEMINAR IN INSTRUCTION.** To assist student teachers and in-service teachers in solving classroom problems. Involves clinical study and discussion of behavioral and learning situations, with special attention to the development characteristics and needs of students.
- 415-2 to 4. **IMPROVEMENT OF INSTRUCTION IN ARITHMETIC IN THE ELEMENTARY SCHOOL.** Items to be taught, the grade placement of content, newer instructional practices and materials of instruction, and means of evaluating achievement. Prerequisite: Mathematics 210 or consent of instructor.
- 433-4. **WORKSHOP IN ELEMENTARY EDUCATION.** Meets needs of in-service teachers in such areas as curriculum adjustment, remedial teaching, child development, and early childhood education. No credit if student has had Education 333 or 390.
- 435-4 to 8. **WORKSHOP IN ELEMENTARY SCHOOL FOREIGN LANGUAGE INSTRUCTION.** Designed to assist elementary school teachers in integrating foreign languages into their teaching program as well as to encourage high school teachers to introduce or supervise foreign languages or education. Prerequisite: basic language credit.
- 437-4. **PROBLEMS IN READING.** Practices and trends in the teaching of reading; materials of instruction in reading, particularly remedial materials; techniques and materials for prevention of reading difficulties; diagnosis and remediation of reading difficulties. Prerequisites: senior standing, 337. Not open to students having had 505.
- 441-4. **TEACHING ELEMENTARY SCIENCE.** A workshop course for teachers of elementary school science.
- 442-4. **SCIENCE FOR THE ELEMENTARY TEACHER.** Study of content and methods of elementary school science.
- 461-4. **THE ELEMENTARY SCHOOL CURRICULUM.** A critical study of the reorganization, construction, and administration of the elementary school curriculum, and the installation, adaptation, and administration of the revised curriculum. Not open to students having had Education 561.
- 465-4. **SEMINAR IN PSYCHOLOGY OF ELEMENTARY SCHOOL SUB-**

JECTS. Psychological principles of learning applied to the mastery of materials used in elementary school subjects. Prerequisites: 314, Guidance 305.

Courses on the 500 level are for graduate students only.

- 505-4. IMPROVEMENT OF READING INSTRUCTION. First course in the reading sequence; survey of reading problems; aspects of the reading process; modern practices in teaching reading.
- 507-2 to 4. READINGS IN READING. Independent reading; acquaintanceship with the literature and research in reading. Conference periods.
- 509-4 to 8. PRACTICUM IN READING. For advanced students; teaching demonstrations and evaluations. Each student works with a group of reading disability cases.
- 510-4 to 8. SEMINAR: PROBLEMS IN READING. Major field content seminar: Problems and practices; comprehensive review and evaluation of research and literature. Each student pursues a problem of his own interest.
- 514-4. ORGANIZATION AND ADMINISTRATION OF READING PROGRAMS. For reading specialists, principals, supervisors, consultants. Recent trends in elementary and high school reading programs; providing reading instruction for total school population; materials and equipment; in-service training; role of the reading specialist. Prerequisite: 461.
- 515-4. SPECIAL PROBLEMS IN THE TEACHING OF ARITHMETIC IN THE ELEMENTARY SCHOOL. A seminar course which covers important problems in arithmetic in the elementary school. The content may vary slightly from year to year, depending upon the interests of the students enrolled. Prerequisite: 415 or consent of instructor.
- 516-8 to 12. INTERNSHIP IN READING. Prerequisite: consent of instructor.
- 517-2 to 4. KINDERGARTEN-PRIMARY PRACTICUM. Practical applications of advanced theory in the Laboratory School. Readings and research related to special problems in the kindergarten-primary classroom. Prerequisite: 8 hours of student teaching.
- 518-2. SUPERVISION OF KINDERGARTEN-PRIMARY STUDENT TEACHING. The function of the supervisory teacher in the student teacher situation. Particular attention to the problem of student teaching in the public schools. A course for present and prospective teachers who wish to be more effective in dealing with student teachers.
- 521-3. DIAGNOSIS AND CORRECTION OF READING DISABILITIES I. Causes of reading difficulties; observation and interview procedures; standardized tests; instruments, and informal inventories; analysis techniques; experiences in preparing materials for corrective purposes. Each student diagnoses and treats a reading disability case under supervision. Prerequisite: 437 or 505.
- 522-3. DIAGNOSIS AND CORRECTION OF READING DISABILITIES II. Prerequisite: 521.
- 523-3. DIAGNOSIS AND CORRECTION OF READING DISABILITIES III. Prerequisite: 522.
- 525-4. SEMINAR IN KINDERGARTEN-PRIMARY EDUCATION. Exploration of research literature on problems in early childhood education. Each student to select problem or problems and to present paper to the

- seminar. Prerequisite: Educational Administration and Supervision 500 or equivalent.
- 537-4. KINDERGARTEN-PRIMARY READING. A survey of problems in the developmental reading program for the primary grades, followed by extensive study of selected problems. Prerequisite: 337 or consent of instructor.
- 541-4. SELECTED TEACHING AND CURRICULUM PROBLEMS IN ELEMENTARY SCHOOL SCIENCE. A course to help teachers with the problems of teaching science in the elementary school. Aims, methods, materials, and equipment. Emphasis placed upon grade placement of materials and the use of community resources.
- 542-4. LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. The practical bearing of investigation and theory on the improvement of current practices in the teaching of the language arts, other than reading. Attention given to evaluation of teaching materials in these areas.
- 543-4. TEACHING THE SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. Organization of material for teaching purposes, techniques of classroom presentation, bibliographies of materials, use of audio and visual aids to instruction, and techniques for evaluating student progress. Readings, lectures, and discussions related to required teaching experience. No credit for students having had 544.
- 544-4. KINDERGARTEN-PRIMARY SOCIAL STUDIES. Reading and research related to improving the child's understanding of his place in a group and his knowledge of his social world. No credit for students having had 543. Prerequisite: consent of instructor.
- 545-4. LANGUAGE IN PRESCHOOL AND PRIMARY GRADES. Review of research in the development of oral and written language of children.
- 546-4. CURRICULUM PROBLEMS IN SCIENCE AT THE KINDERGARTEN-PRIMARY LEVEL. Designed to help teachers with the problems peculiar to the teaching of science in the kindergarten-primary grades.
- 557-4. THE ELEMENTARY PRINCIPALSHIP. Designed to meet many of the particular needs of persons interested in qualifying for appointments as elementary school principals. Other than the administrative responsibilities of the elementary principal, such topics as the grouping of pupils, the elementary school's program, and personnel are studied.
- 560-4. KINDERGARTEN-PRIMARY EDUCATION. A survey of current problems and practices in early childhood education for children from four to eight years of age, with emphasis on wide reading in current research literature. Prerequisite: consent of instructor.
- 563-4. ORGANIZATION OF THE ELEMENTARY SCHOOL. An analysis of types of elementary school organization with special attention to influence of school organization upon the educational program. Application of research findings to selection and use of materials of instruction. Special consideration to student's professional problems.
- 575-2 to 4. INDIVIDUAL RESEARCH. The selection, investigation, and writing of a research topic, under the personal supervision of a member of the departmental graduate staff, in one of the following areas: A. Curriculum, B. Supervision, C. Language Arts, D. Science, E. Reading, F. Social Studies, G. Problems in Elementary Education, H. Arithmetic, J. Problems in Kindergarten-Primary, K. Elementary Administration.

596-5 to 9. INDEPENDENT INVESTIGATION. Field study required of each student working for the sixth-year professional certificate. The work should be done in the setting of a school system where the student is employed or where full co-operation is extended. The study involves selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summarizations.

597-1 to 3, 598-1 to 3, 599-1 to 3. THESIS.

600-1 to 48. DISSERTATION

GUIDANCE

Professor Ralph O. Gallington, Ed.D. (George Washington)	1955
Professor Wm. Neal Phelps, Ed.D. (Colorado State College)	1941
Professor W. A. Thalman, Ph.D. (Cornell), Emeritus (1961)	1929
Associate Professor I. Clark Davis, Ed.D. (Indiana)	1949
Associate Professor Eugene D. Fitzpatrick, Ed.D. (Colorado State College), Chairman	1950
Associate Professor Jack W. Graham, Ph.D. (Purdue)	1951
Associate Professor Clinton Roscoe Meek, Ph.D. (George Peabody)	1957
Associate Professor Guy A. Renzaglia, Ph.D. (Minnesota)	1955
Associate Professor A. J. Shafter, Ph.D. (Iowa)	1957
Associate Professor Charles Southard, Ed.D. (Illinois)	1961
Assistant Professor Kenneth Dallas Orton, Ph.D. (Iowa)	1958
Assistant Professor Aileen Parker, Ed.D. (Indiana)	1960
Assistant Professor Benson B. Poirier, Ed.D. (Wyoming)	1958
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Visiting Professor Charles E. Skinner, Ph.D. (New York)	1956-58; 1959-62
Lecturer Harvey F. Gardner, M.S. in Ed. (Southern Illinois)	1955-62
Lecturer Jane Z. Josse, M.S. in Ed. (Southern Illinois)	1957-62
Lecturer Margaret Gardner, Ph.D. (Northwestern)	1959-62
Instructor Louis Vieceli, M.S. in Ed. (Southern Illinois)	1958

The Department of Guidance aids in the preparation of educators for all academic levels by focusing attention on the student with his unique needs, interests, capabilities, limitations, plans, and decisions. In addition to studying the characteristics of the student, considerable attention is paid to the learning processes and methods of evaluation. Students who major in guidance are prepared as specialists to aid and advise other educators concerning student problems as well as to counsel students. The major is limited to the graduate level.

A minor in guidance is offered at the undergraduate level. This minor consists of 305, 412, 420, 422, 442, Special Education 414.

COURSE DESCRIPTIONS

- 305-4. **EDUCATIONAL PSYCHOLOGY.** Study of the learner and the learning process. Includes study of behavior, development, the school environment, application of learning theories, and methods of assessment. Prerequisite: Psychology 201.
- 412-4. **MENTAL HYGIENE.** An integration of knowledge and principles concerning factors and conditions in the personal life that tend to facilitate or to deter mental health. Mental health viewed as living creatively in an atmosphere of satisfactory interpersonal relations. Prerequisite: 305.
- 420-4. **EDUCATIONAL STATISTICS.** The statistics needed by teachers for classroom use, the reading of educational literature, and informal educational research. Includes methods of organizing and presenting data, describing group performance, describing individual performance, model distributions, measure of relationship, measures of reliability, and tests of significance. Prerequisite: 305.
- 422-3 or 4. **EDUCATIONAL MEASUREMENTS I.** Philosophy and history of educational measurements. Principles and practice of test construction. Planning of testing programs for elementary and secondary schools, including the selection, administering, scoring, and interpretation of standardized tests. Prerequisite: 305.
- 442-4. **BASIC PRINCIPLES OF GUIDANCE.** Introductory course on student personnel services. Survey of philosophy, principles, and organization of guidance services. Prerequisite: 305.
- 481-1 to 6. **SEMINAR ON A SELECTED TOPIC.** Seminars conducted by staff members and/or distinguished guest lecturers on topics related to the area of guidance. Amount of credit will be determined on the basis of the topic and the amount of time required for adequate presentation.

Courses on the 500 level are for graduate students only.

- 501-2 to 6. **SPECIAL RESEARCH PROBLEMS.** For majors in the Department of Guidance. Formulating, investigating, and reporting on a problem in the area of guidance. Prerequisite: advanced standing and consent of instructor.
- 502-4. **MEASUREMENT AND EVALUATION OF PRODUCTS AND PROCEDURES.** (Same as Industrial Education 502.)
- 503-4. **TESTS AND MEASUREMENTS IN BUSINESS EDUCATION.** (Same as Secretarial and Business Education 503.)
- 511-4. **EDUCATIONAL IMPLICATIONS OF LEARNING THEORIES.** Survey of the major theories of learning; conditioning, connectionism, and field theory. Emphasizes the implications of these theories for classroom practice. Prerequisite: 305.
- 515-4. **PSYCHOLOGICAL ASPECTS OF EDUCATION.** Seminar in which each student prepares and presents a paper concerning a specific application of psychological principles in an educational situation. Discussion

- by class and staff follows each presentation. Prerequisite: consent of instructor.
- 520-4. ADVANCED EDUCATIONAL STATISTICS. Statistical methods needed for educational research. Includes reliability of statistics, tests of significance, nonparametrics, correlational analysis, and test selection. Prerequisite: 420.
- 521-4. DESIGNING OF EXPERIMENTS IN EDUCATION. Systems of organizing and analyzing data so that maximum information can be obtained. Includes analysis of variance, factorial design, square designs, mixed designs, tests of homogeneity, analysis of covariance, etc. Prerequisite: 520.
- 522-4. EDUCATIONAL MEASUREMENTS II. A study of standardized tests and other measuring devices to reveal individual or group characteristics. Emphasizes application and interpretation for counseling, educational, and research purposes. Prerequisites: 420 and 422.
- 525-4. SCHOOL BEHAVIOR PROBLEMS AND THEIR PREVENTION. Etiological factors, differential diagnosis, and methods used in the correction of behavior problems. Consideration of intra-community and extra-community facilities available in treatment programs. Includes in-service field work. Prerequisite: 412.
- 526-4. TECHNIQUES IN INDIVIDUAL GUIDANCE. Each student employs psychometric procedures, makes observations, and holds interviews with the student, the parent, the teachers, and others. The student to work with one individual throughout the term. Prerequisite: 426.
- 528-4. ADVANCED GUIDANCE OF THE INDIVIDUAL. A continuation of 526. Techniques and the methods of treatment which would apply to a particular case. Individual direction and guidance given students by members of the staff. Problems for consideration; educational difficulties, physical disorders, and the way in which these are related to behavior of school children. Prerequisite: 526.
- 535-4. INTRODUCTION TO INDIVIDUAL MEASUREMENT. Survey of theories and practices in the individual assessment of human behavioral characteristics, to develop understanding and appreciation of these concepts for use in the counseling relationship. Prerequisite: consent of instructor.
- 536A-4. APPRAISAL OF INTELLIGENCE (Elementary School Level).
- 536B-4. APPRAISAL OF INTELLIGENCE (Adolescents).
- 537-4. COUNSELING THEORY AND PRACTICE I. Systematic study of the major approaches to counseling. Observation and practice utilized to supplement didactic discussion. Prerequisite: 441 or 442 or consent of instructor.
- 538-3. COUNSELING THEORY AND PRACTICE II. Systematic study of major theories of counseling, as they apply to school situations. Supervised experience in role-playing utilizing these approaches to counseling. Prerequisite: 537.
- 539-3. COUNSELING THEORY AND PRACTICE III. Continuation of 538 with supervised experience in actual counseling to illustrate relationship of theory and practice. Prerequisite: 538.
- 541-4. OCCUPATIONAL INFORMATION AND GUIDANCE. Designed for

school counselors, industrial supervisors, and teachers to give them an orientation to and experience with occupational information and vocational adjustment. Prerequisite: consent of instructor.

543-4. GUIDANCE THROUGH GROUPS. Study of the methods, techniques, and materials for the organization and utilization of groups for guidance purposes. Prerequisites: 412, 442.

545-1 to 4. SEMINAR. A seminar-laboratory course to discuss current problems in guidance as met by guidance workers in the field in the following areas. A. Problems in Guidance, B. College Student Personnel, C. Educational Diagnosis, D. Test Development, E. Test Analysis, F. Pupil Adjustment, G. Learning and Instruction, H. Individual Differences, J. Organization and Administration, K. Rehabilitation.

562A-4. CHILD DEVELOPMENT IN EDUCATION. How children mature and develop with emphasis upon manipulating the curriculum and other school activities to promote normal healthy development. Prerequisite: 412.

562B-4. ADOLESCENT DEVELOPMENT IN EDUCATION. The problems of adolescence with emphasis upon ways in which the school can help adolescents in solving these problems. Prerequisite: 412.

565-4. PSYCHOLOGY OF ELEMENTARY SCHOOL SUBJECTS.

566-4. PSYCHOLOGY OF SECONDARY SCHOOL SUBJECTS.

573-2. SELECTION, PLACEMENT, AND FOLLOW-UP. Survey of current techniques and criteria used in selection, placement, and follow-up of both handicapped and non-handicapped employees.

574-1 to 12. SUPERVISED EXPERIENCE IN REHABILITATION. Experience both on and off campus in interviewing, counseling, case study, and placement of rehabilitation clients under adequate supervision.

575A-1 to 4. PRACTICUM IN REHABILITATION: COUNSELING. Practical experience in counseling the handicapped. Prerequisites: consent of Rehabilitation Institute.

576-4. PRACTICUM IN SCHOOL PERSONNEL WORK. Laboratory research course for advanced majors. Students to assist with testing programs, keeping records, counseling students. Research projects to accompany practical experience. Minimum of 12 hours per week "on the job." Prerequisite: advanced standing.

581-4. INTERNSHIP: APPRAISAL TECHNIQUES AND PROCEDURES. Supervised experience in administering, scoring, interpreting, and using tests in a public school program. Prerequisite: consent of instructor. Offered on demand.

582-4. INTERNSHIP: COUNSELING. Supervised counseling experience with students in a public school guidance program. To include counseling of educational, vocational, social, and personal problems. Prerequisite: consent of instructor. Offered on demand.

583-4. INTERNSHIP: GROUP GUIDANCE TECHNIQUES. Supervised experience in conducting group guidance in a public school program. To include work with regularly scheduled group guidance classes as well as with clubs and other student organizations. Prerequisite: consent of instructor. Offered on demand.

596-5 to 9. INDEPENDENT INVESTIGATION. This is a field study required

of each student working for the sixth-year professional certificate. The work should be done in the setting of a school system where the student is employed or where full co-operation is extended. The study will involve selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summations.

599-5 to 9. THESIS.

600-1 to 48. DISSERTATION.

HEALTH EDUCATION

Professor Donald N. Boydston, Ed.D. (Columbia), Acting Chairman	1955
Associate Professor A. Frank Bridges, D.H.S. (Indiana)	1943
Associate Professor Leslie Ralph Casey, Ed.D. (Columbia)	1957
Associate Professor Florence E. Denny, M.A. (Columbia)	1929
Associate Professor Deward K. Grissom, Ed.D. (Columbia)	1956
Associate Professor John R. LeFevre, Ed.D. (Columbia)	1955
Assistant Professor James E. Aaron, Ed.D. (New York)	1957
Assistant Professor Frances K. Phillips, M.A. (Columbia)	1944
Assistant Professor Charles E. Richardson, Ed.D. (California)	1952
Assistant Professor Andrew T. Vaughan, Ed.D. (Columbia)	1958
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Lecturer Jack James Richardson, M.S. (Washington University)	1961
Lecturer Harold James Shay, M.A. (Notre Dame)	1958-62
Lecturer Richard Wigley, M.S. (Southern Illinois)	1958-62

The Department of Health Education offers both undergraduate and graduate degree programs with specializations in the areas of school health education, community health education, and safety education.

For the 48-hour undergraduate major in health education (with one minor) the following courses are required: 205, 300, 311 or 312, 313s, 334s, 350 or 460, 400, 471, 490, Microbiology 100, Physiology 209.

Required courses for the 36-hour major (with two minors) are 205, 300, 311 or 312, 313s or 334s, 350 or 460, 471, 490, Microbiology 100, and Physiology 209.

In addition, the major in health education is urged to secure a total of 36 hours of natural science or, if preferred, to secure a minor in biology consisting of Botany 101, 202, 203; Zoology 100, 102, 103; Microbiology 100; and Physiology 209. Minors are suggested in related areas of physical education, home economics, and recreation.

A certification program is available to the health education major in elementary or secondary teaching specialties.

A health education minor of 30 hours and a safety education minor of 30 hours are also offered in the department.

Required for the health education minor are 205, 300, 311 or 312, 313s or 334s, 350 or 460, 471. Additional courses may be taken in safety education, school health, community health, and home nursing.

Requirements for the safety education minor are 302s, 313s, 323s, 334s, 443s, 475s, Instructional Materials 417 or 445. Additional courses may be elected from the following: 320s, 413s, 525s, Industrial Education 332, 365, Psychology 201, 320.

Graduate course work leading to the Master of Science in Education and the Doctor of Philosophy degrees are offered in the Department of Health Education. For information, see the Graduate School bulletin.

COURSE DESCRIPTIONS

- 100-4. **HEALTHFUL LIVING.** A survey course in personal and community health designed to meet the general health needs, and to develop wholesome health attitudes and practices of college students. Prerequisite for all 300 courses. Required for all freshmen.
- 205-4. **PRINCIPLES AND FOUNDATIONS OF HEALTH EDUCATION.** Introduction to philosophy and history of health education as well as functions of the school health department and voluntary agency interaction in the health education program. Prerequisite for all 300 and above.
- 300-3. **COMMUNICABLE DISEASES.** A study of communicable diseases with emphasis on control and principles of prevention and application of these principles to the individual school and community.
- 302S-4. **DRIVER EDUCATION AND TRAINING.** To prepare the college student for teaching driver education and training in the secondary school. Prerequisite: Illinois driver's license.
- 310-4. **HOME NURSING.** Theory, practice, and demonstration concerning equipment, care of patient and sick room, maternity and child care, recognition of common symptoms of disease, administration of simple treatments.
- 311-4. **CHILD DEVELOPMENT.** Physical development of the child beginning with the study of pregnancy, pre-natal and maternal care continuing with overview of development from birth through puberty.
- 312-4. **EMOTIONAL HEALTH.** Concepts of positive emotional health as related to teacher and parent in terms of influences of the child in the classroom and community.
- 313S-4. **INTRODUCTION TO SAFETY EDUCATION.** Prepares for safety education in the public schools. Concerns safety as a social problem, development of safety skills, accident causes, teacher liability, research in the field.
- 320S-2. **SAFETY IN PHYSICAL EDUCATION AND ATHLETICS.** For preparation to teach in elementary or secondary school athletic or physical education programs. Emphasis on sports safety methods.

- 323S-4. METHODS AND MATERIALS IN SAFETY EDUCATION. To acquaint student with material aids and methods, techniques in the teaching of safety education at elementary and secondary school levels.
- 325-3. COMMUNITY HEALTH PROBLEMS. Problems of a community health nature are treated and methods outlined to meet the problems. Areas include community health organization, problems of the environment, food, sanitation, and disease. Epidemiological processes stressed.
- 334S-4. FIRST AID. Red Cross First Aid Course with lectures, demonstrations, and practical applications. Red Cross Instructor's Certificate given.
- 350-4. METHODS AND MATERIALS IN ELEMENTARY SCHOOL HEALTH EDUCATION. Designed to show the prospective teacher fundamental processes, techniques, and material aids involved in elementary school health teaching.
- 355-4. INTRODUCTION TO PUBLIC HEALTH. Philosophy, organization, administration, and functions of federal, state, and local, official and voluntary public health agencies. Periodic field trips involved.
- 356-5. PUBLIC HEALTH II. An examination of specific public health problems and measures of control. Intended for health science students only.
- 365-4. PROBLEMS OF HEALTH EDUCATION IN THE PUBLIC SCHOOLS. Study and observation of existing health education problems in the public schools; of recent developments in education and their influences upon the school health program.
- 376-4. WORKSHOP IN HEALTH AND NUTRITION. (Same as Food and Nutrition 376.)
- 400-4. HEALTH APPRAISAL OF SCHOOL CHILDREN. The role of the teacher in the health appraisal of the school child, including school health examinations, use of health records, and emphasis on training for recognition of health deviations from normal common among school children. Not open to students who have had 450.
- 405-3. METHODS AND MATERIALS IN SOCIAL HYGIENE. Methods and materials course designed to prepare the prospective teacher to instruct in various phases of family life education.
- 413S-4. SAFE AND HEALTHFUL LIVING OUTDOORS. Areas to be included are foods, sanitation, survival, plants and animals, natural hazards, emergency care, water, riflery, and others. Prerequisites: 334, and at least 10 hours of biological sciences.
- 415S-3 to 4. WORKSHOP IN DRIVER EDUCATION AND TRAFFIC SAFETY. Summer course designed for pre-service and in-service teachers of driver education and traffic safety. Individual and group problems will be treated. Lectures by safety authorities, demonstrations, field trips, audio-visual materials, and individually supervised research in special problem areas. Prerequisite: 302s or equivalent.
- 443S-4. METHODS AND MATERIALS IN DRIVER EDUCATION. An advanced course in driver education which includes a study of existing courses of study, review of research, course-of-study planning, visitation and reporting, panel discussions, accident statistics, conducting the secondary school program, testing, and demonstration in the car. Prerequisite: 302s.
- 450-4. HEALTH EDUCATION IN THE ELEMENTARY SCHOOL. Respon-

sibilities of schools to instruct their students in basic fundamentals of how to live healthfully. Principles, methods, programs, and materials for the elementary teacher. The integration of health with other subjects, health observation of children, abnormalities, screening tests, and related materials. Not open to students who have had 400.

- 460-4. **METHODS AND MATERIALS IN SECONDARY SCHOOL HEALTH EDUCATION.** Shows the prospective teacher the fundamental processes involved in the teaching of health education at the secondary level.
- 461-4 to 8. **WORKSHOP IN HEALTH EDUCATION.** Summer course for in-service teachers, administrators, advanced students, nurses, social workers, and others interested in public health aspects of school and community living. Individual problems of classroom health treated as units in such fields as speech defects and their detection and correction, communicable disease control, nutrition, social and mental hygiene. Lectures, demonstrations, films, field trips, and individually supervised research in special problems. Prerequisite: 100 or its equivalent.
- 462-4. **HEALTH EDUCATION WORKSHOP.** A continuation of 461 with emphasis on total school health teaching objectives.
- 463-4. **HEALTH EDUCATION WORKSHOP.** A continuation of 462 with emphasis on evaluation of total school health teaching program.
- 471-4. **ORGANIZATION AND ADMINISTRATION OF SCHOOL HEALTH.** Appraisal of over-all school organization for health education, including health service and personnel, health and safety instruction, school environment, school health examination, local, state, and federal resources for health, health councils, and interdepartmental relationships.
- 475S-3. **TRAFFIC LAW ENFORCEMENT AND PLANNING.** Designed to acquaint safety and driver education teachers with the purposes of traffic law enforcement and engineering, and the methods used to fulfill these purposes. Emphasis placed upon ways of improving existing services and co-ordinating the efforts of the many official and non-official agencies concerned with the traffic problem. Prerequisite: 443s or consent of instructor.
- 480S-4. **WORKSHOP IN SAFETY EDUCATION.** Summer course for in-service teachers, nurses, administrators, advanced students, and others interested in safety education as it applies to the public school and the community. Individual problems, lectures, demonstrations, films, field trips, and individual group study in special areas of interest. Prerequisite: 313s or 323s or consent of instructor.
- 488-4. **EDUCATIONAL ASPECTS OF ENVIRONMENTAL SANITATION.** Application of principles of learning to man's contacts with his environment: water, food, air, radiation, housing, and refuse. Emphasis is placed upon both individual and community aspects of environmental health. Prerequisites: 100, 205, or equivalent.
- 489-4. **INTRODUCTION TO VITAL STATISTICS.** An introduction to biostatistics; examination of theories of population growth; understandings of collection, organization, summarization, presentation, evaluation, and interpretation of data relative to biologic happenings. Prerequisite: Mathematics 120 or equivalent.
- 490-4 to 8. **FIELD WORK IN SCHOOL AND COMMUNITY HEALTH.** Field

training, observation, and participation in current public and school health programs. Area schools and public health agencies will be utilized to provide practical experience for the health education student. Restricted to majors in the department.

- 500-4. COMMUNITY ORGANIZATION FOR HEALTH EDUCATION. Review of the philosophies of community organization for health; techniques of group work, current research in community organization, and examination of programs of community health agencies.
- 510-4. CONSTRUCTION OF THE CURRICULUM IN HEALTH EDUCATION. Review of health instruction programs in elementary and secondary schools, consideration of health needs and interests and their relationship to the curriculum, evaluation of health texts, and evaluation of current research.
- 511-5. PRACTICUM IN HEALTH EDUCATION WORKSHOP. Designed to give graduate and post-graduate students experiences in organizing, planning, and operating in-service training programs through workshop methods.
- 515-4. REVIEW OF CURRENT LITERATURE IN HEALTH EDUCATION, PUBLIC HEALTH, AND SAFETY EDUCATION. A survey and analysis of the newer publications in the related fields of health education, public health, and safety education.
- 520-4 to 6. SPECIAL PROJECTS. For students who may wish to conduct more detailed research and study on advanced problems in the fields of public health, safety education, and health education.
- 525S-4. ORGANIZATION, ADMINISTRATION, AND SUPERVISION OF SAFETY EDUCATION. Designed to give the student basic principles of organization, administration, and supervision in safety education. Problems, policies, practices, and methods involved in the organization and administration of a safety education program.
- 530S-4. PROBLEMS AND RESEARCH IN ACCIDENT PREVENTION. Principles of accident prevention, causes of accidents, problems of behavior, and study of current research related to safe behavior in school, home, traffic, and transportation. Prerequisites: 443s, 525s, or consent of instructor.
- 533-4. HUMAN CONSERVATION I. An analysis of community health problem trends and changes including aging; chronic and degenerative diseases; mental illnesses; traumatic illness, injuries, and defects; radiological hazards; communicable diseases; and maternal and child health problems. An epidemiological approach to the cause, nature, extent, and trends in erosion and wastage of human resources. Prerequisite: consent of instructor.
- 534-3. HUMAN CONSERVATION II. An analysis of community structures in relation to positive health services, education, and healthful living in respects to community health problems and health requirements. A study of trends in programming to meet minimum health requirements and to care for or ameliorate existing health problems and hazards on a community-wide basis. Prerequisite: 533.
- 535-4. HUMAN CONSERVATION III. An analysis of the unmet health needs or requirements for optimum conservation of human resources in the community, including a study of pilot and experimental programs and research in community efforts to meet health needs and solve existing

health problems. An evaluative approach to existing health programming and research including an analysis of further needed experimentation and research and possible sources for leadership and funds for promoting community health research, programmings, and planning. Prerequisites: 533, 534.

590-4 to 12. FIELD INTERNSHIP. Full quarter field work with an approved department of public health or voluntary health agency under the supervision of the agency officer in charge and the departmental supervisor.

HIGHER EDUCATION

Professor John E. Grinnell, Ph.D. (Stanford)	1955
Professor George H. Hand, Ph.D. (Princeton), Chairman	1952
Professor Arthur E. Lean, Ph.D. (Michigan)	1957
Professor Harold W. See, Ed.D. (Indiana)	1955
Associate Professor I. Clark Davis, Ed.D. (Indiana)	1949
Associate Professor Dennis L. Trueblood, Ed.D. (Indiana)	1957

The Department of Higher Education was established on July 1, 1959. It offers programs leading to the Master of Science in Education and the Doctor of Philosophy degrees.

The general goal of the department is a program: (1) to interest and instruct college graduates in the college teaching profession and its problems, (2) to interest and instruct college graduates in the field of college administration, (3) to interest and instruct college graduates in the field of college student personnel work, (4) to analyze and call attention to historical and current problems, issues, and opportunities in higher education.

The program in college student personnel work is a two-year course of study with a balance of theory and practice. Graduates receive a Master of Science in Education degree (72 quarter hours) plus a full academic year of experience in student personnel work with both women and men. The student plans his experience, in co-operation with his adviser, within the following framework: (1) courses in the major field including theory and supervised experiences, (2) courses in the foundation fields of higher education including theory, philosophy, problems, curriculum, finance, and administration and of human behavior including personality theory, psychopathology, learning theory, group dynamics, counseling theory, and psychological measurement, and (3) courses in elective areas of professional education or the traditional academic disciplines to strengthen the student's college teaching or other professional needs.

Admission to the program is by Selection Committee. Qualifications for admission include a bachelor's degree, a "B" average or better in under-

graduate study, and personal qualities to live with students as an adviser and counselor.

Room, board, and tuition are offered for service as a residence hall fellow. Fellowship funds of \$80 per month are available for students accepted with a "B" average or above. Especially for married students, a limited number of graduate assistantships at \$180 per month and tuition are available through the Office of Student Affairs.

For further information, address inquiries to Co-ordinator, College Student Personnel Graduate Studies Program, Department of Higher Education, Southern Illinois University, Carbondale, Illinois.

COURSE DESCRIPTIONS

- 401-2, 402-2, 403-2. CAREERS IN HIGHER EDUCATION. A series of exploratory courses designed to acquaint the students with the career possibilities and functions of the respective areas: 401, college teaching; 402, college student personnel; 403, college administration.
- 410-4. HIGHER EDUCATION IN THE UNITED STATES. An overview of higher education with emphasis on current problems and organizational relationships.
- 441-4. FUNCTIONS AND ORGANIZATION OF COLLEGE STUDENT PERSONNEL. A description and discussion of the functions of college student personnel programs with an emphasis on the organizational relationships of the various functions.
- 450-1. ORIENTATION TO COLLEGE TEACHING. An introduction to the problems of college teaching with emphasis on classroom techniques for the graduate assistant or inexperienced college teacher.
- 477-2. PRINCIPLES OF COLLEGE STAFF MANAGEMENT. A study of systems and problems of personnel practices.

Courses on the 500 level are for graduate students only.

- 512-4. HIGHER EDUCATION IN THE NATIONS OF THE WORLD. A comparative study of higher education systems of various parts of the world.
- 513-4. POLICY MAKING AND CONTROL OF HIGHER EDUCATION. A case approach to a study of the sources of policy making, the methods of control, and the relationships among various policy making and operating units.
- 521-2 to 12. SEMINAR. Arranged to meet the needs of specific groups of students. Topics: A, college teaching; B, student values; C, housing; E, staff personnel; F, finance; G, the junior college; M, sociology of higher education; S, continuing education; Y, the technical institute.
- 522-1 to 12. READINGS. Topics: A, college teaching; B, college student personnel; C, college administration.
- 523-1 to 12. INTERNSHIP. Supervised work experiences in appropriate settings. A, college teaching; B, college student personnel; C, college administration.

- 524-2 to 6. SPECIAL PROBLEMS. Formulating, investigating, and reporting on problems in: A, college teaching; B, college student personnel; C, college administration.
- 546-4. PERSONNEL WORK WITH COLLEGE STUDENT GROUPS. A case approach to understanding the various aspects and relationships of student co-curricular activities. Emphasis on the role of group activities in the educational life of the student and the college community.
- 551-4. CURRICULUM DESIGN AND DEVELOPMENT IN HIGHER EDUCATION. Examination of methods and resources in designing various college curricula. Emphasis on experimentation in curriculum development.
- 565-4. THE JUNIOR COLLEGE. A study of the function of the junior college in American higher education with particular emphasis on relationships to the secondary school and to the community. Treats special problems of curriculum, student services, finance, and faculty selection and growth.
- 576-4. ADMINISTRATIVE PRACTICES IN HIGHER EDUCATION. A study of administrative behavior with applications to higher education setting.
- 578-4. FINANCE OF HIGHER EDUCATION. A description of the economic aspects of higher education. Study of sources and management of college finance including budgeting and control.
- 599-1 to 9. THESIS.
- 600-1 to 48. DISSERTATION.

INSTRUCTIONAL MATERIALS

Professor Paul Robert Wendt, Ph.D. (Minnesota), Chairman	1955
Assistant Professor Gordon K. Butts, Ed.D. (Indiana)	1950
Assistant Professor Kathleen G. Fletcher, M.S. (Illinois)	1955
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Lecturer Roy Winston Evans, A.M. (George Peabody)	1958
Lecturer Grosvenor C. Rust, A.M. (Chicago)	1958-62

The Department of Instructional Materials offers undergraduate and graduate work in the utilization and administration of teaching materials. The departmental curriculum is designed to train both audio-visual coordinators and librarians to become fully qualified instructional materials specialists who can administer all teaching materials. The program also provides the traditional undergraduate minor in library science, and graduate minors in library science and in audio-visual education.

Persons trained primarily as teachers may qualify for part-time professional service in a school library by completing a minor of 26 hours of work in approved courses.

The required courses constituting a minor in library science are 306, 308, 403, 405, 406, 417.

COURSE DESCRIPTIONS

- 100-2. THE USE OF SOUTHERN ILLINOIS UNIVERSITY LIBRARY. Detailed instruction on how to use the Morris Library at Southern Illinois University. Explains the library divisions, the card catalogue, reference books, special collections and services of the library.
- 201-2. THE INSTRUCTIONAL MATERIALS APPROACH TO LEARNING. An introductory course to the study of instructional materials. A survey of the history of libraries and audio-visual centers; the complete range of materials of teaching with their unique and common characteristics; the background of the school instructional materials program.
- 306-4. SCHOOL LIBRARIES AS INFORMATION CENTERS. Evaluation, selection, and use of reference sources for elementary and secondary school libraries. Principles and methods of reference service.
- 308-4. SCHOOL LIBRARY TECHNICAL PROCESSES. Organization of library materials for effective service to readers. Acquisition, classification, cataloguing, preparation, preservation, and circulation of materials. Laboratory assignments.
- 400-2. LIBRARY RESEARCH METHODS. Introduction to the use of library materials in graduate research. Includes a survey of scholarly publishing and the use of reference works in various subjects.
- 403-4. SCHOOL LIBRARY FUNCTIONS AND MANAGEMENT. Effective library services in relation to the educational objectives of elementary and secondary school programs: organization, supervision, finance, housing, equipment, standards, and evaluation.
- 405-4. LIBRARY MATERIALS FOR CHILDREN. Study of the aids, methods, and criteria for the selection and use of books and other instructional materials for children in the elementary schools. Open to juniors with consent of instructor.
- 406-4. LIBRARY MATERIALS FOR ADOLESCENTS. A study of the aids, methods, and criteria for the selection and use of books and other instructional materials for students in the high school. Open to juniors with consent of instructor.
- 417-4. AUDIO-VISUAL METHODS IN EDUCATION. Selection and utilization of audio-visual methods in the teaching situation, elementary through adult levels. Motion pictures, slides, filmstrips, and recordings particularly stressed.
- 420-4. SCHOOL LIBRARY ACTIVITIES AND PRACTICE. Supervised practice and observation integrated with instruction in the typical activities of school librarianship: storytelling, publicity, developing units of library instruction, and work with students. Prerequisites: 306, 308, 403, 405 or 406.
- 440-2. PHOTOGRAPHY FOR TEACHERS. Techniques of photographing community resources and other materials for classroom instruction and school public relations. Emphasis on obtaining of material for color slides and study prints.

- 445-4. PREPARATION OF TEACHER-MADE AUDIO-VISUAL MATERIALS. Laboratory practice in the preparation of bulletin boards, opaque materials, models, lantern slides, recordings, feltboards, and other graphic materials. Prerequisite: 417 or consent of instructor.
- 457-4. RADIO AND TELEVISION IN THE CLASSROOM. Educational programs and their value to the teacher in the classroom. Sample tapes of radio programs and kinescopes used.
- 458-4. THE MEDIUM OF THE MOTION PICTURE. A study of the full range of expression by motion pictures including the documentary, theatrical, educational, experimental, and industrial films. Representative films screened.

Courses on the 500 level are for graduate students only.

- 510-4. MASS COMMUNICATIONS IN EDUCATION. The school and libraries in mass communication. The problems of propaganda, intellectual freedom, methods of research, and international aspects of communication are considered.
- 514-4. READING AND VISUAL STUDIES. A survey of research in individual reading interests and habits, the sociological effect of reading, and the reading of pictures. Prerequisites: 405, 406, 417.
- 530-4. HISTORY OF BOOKS AND LIBRARIES. The evolution of the printed book and the rise and development of modern libraries.
- 546-4. INTEGRATION OF AUDIO-VISUAL MATERIALS IN THE CLASSROOM. Selection of materials on the basis of curricular needs. Problems in disseminating information about audio-visual materials. Techniques of evaluating each type of audio-visual material for use in the classroom. Prerequisite: 417.
- 547-4. SCHOOL FILM AND FILMSTRIP PRODUCTION. Simplified techniques for teachers and audio-visual co-ordinators who may need to produce school-made films and filmstrips to meet local school problems.
- 548-4. SUPERVISION AND ADMINISTRATION OF AN AUDIO-VISUAL PROGRAM. Provides professional information and training for anyone who has administrative responsibilities for an audio-visual program. For teachers, co-ordinators, or directors. Prerequisite: 417.
- 549-4. VISUAL LEARNING. Learning from pictures in the classroom, the design of still and moving pictures, pictures used in testing perception, and the place of pictures in advertising and communication. Prerequisite: consent of instructor.
- 554-4. ADMINISTRATION OF AN INSTRUCTIONAL MATERIALS CENTER. Based on the concept of a single agency in the school that encompasses all forms of instructional materials. For specialists in the supervision and administration of integrated audio-visual and library programs. Prerequisites: 403, 548, Educational Administration and Supervision 456, 460, or equivalent.
- 560-4. SEMINAR IN INSTRUCTIONAL MATERIALS. Designed to give advanced graduate students an opportunity to investigate and discuss topics in instructional materials before the seminar group. Topics selected would depend on background and interest of individuals.

576-2 to 4. PROBLEMS IN INSTRUCTIONAL MATERIALS. Opportunity for individual study of selected problems. Prerequisite: consent of instructor.
 599-5 to 9. THESIS.

PHYSICAL EDUCATION FOR MEN

Professor Jay A. Bender, Ph.D. (Illinois)	1957
Associate Professor Leslie Ralph Casey, Ed.D. (Columbia)	1957
Associate Professor John R. LeFevre, Ed.D. (Columbia)	1955
Associate Professor Leland P. Lingle, M.A. (Iowa)	1927
Associate Professor Glenn Martin, M.A. (Iowa)	1938
Associate Professor Edward J. Shea, Ph.D. (New York), Chairman	1954
Assistant Professor C. C. Franklin, Jr., (Indiana), Director	1948
Assistant Professor Lynn C. Holder, M.S. in Ed. (Indiana)	1946
Assistant Professor Ronald G. Knowlton, Ph.D. (Illinois)	1961
Assistant Professor Robert R. Spackman, Jr., M.S. (Southern Illinois)	1957
Assistant Professor James J. Wilkinson, D.P.Ed. (Indiana)	1948-50; 1951
Instructor Robert Eric Franz, M.S. in Ed. (Southern Illinois)	1953
Instructor Harry Gallatin, Jr., M.A. (Iowa State)	1958
Instructor Norman C. Greene, B.S. (Washington State College)	1957
Instructor William T. Meade, M.A. in Ed. (North Carolina)	1956
Instructor Carmen A. Piccone, M.S. (Southern Illinois)	1955
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Lecturer Donald R. Cross, M.A. (Southern Illinois)	1960
Lecturer Lewis B. Hartzog, M.S. (Colorado State)	1960
Lecturer George A. Iubelt, M.A. (Indiana)	1959
Assistant Supervisor George H. Davis	1961-62

COACHING STAFF

Head of Intercollegiate Athletics: Donald N. Boydston, Ed.D. (Columbia)	1955
Head Baseball Coach: Glenn Martin, M.A. (Iowa)	1938
Head Basketball Coach: Harry Gallatin, Jr., M.A. (Iowa)	1958
Head Football Coach: Carmen A. Piccone, M.S. (Southern Illinois)	1955
Head Golf Coach: Lynn C. Holder, M.S. in Ed. (Indiana)	1946
Head Swimming Coach: Leslie Ralph Casey, Ed.D. (Columbia)	1957
Head Tennis Coach: John R. LeFevre, Ed.D. (Columbia)	1955
Head Track and Cross Country Coach: Lewis B. Hartzog, M.S.	

(Colorado State)	1960
Head Wrestling Coach: James J. Wilkinson, D.P.Ed. (Indiana)	1948-50; 1951
Assistant Football Coach: Robert Eric Franz, M.S. in Ed. (Southern Illinois)	1953
Assistant Football Coach: Andrew T. Vaughan, Ed.D. (Columbia)	1953
Coach William T. Meade, M.A. in Ed. (North Carolina)	1956
Assistant Professor Robert R. Spackman, Jr., M.S. (Southern Illinois)	1957
Assistant Athletic Director: Bill Brown, M.A. in Ed. (North Carolina)	1957
Assistant Basketball Coach: George A. Iubelt, M.A. (Indiana)	1959

The Department of Physical Education for Men offers a program leading to the Bachelor of Science in Education degree.

Six hours of physical education activity courses are included in the general degree requirements. These 6 hours, which should be completed in the freshman and sophomore years, must consist of three 100-level and three 200- or 300-level activity courses. Upon advice of the university physician, students who must modify their activities may register for 149 or 249. Students may substitute a full quarter of membership on a varsity sports squad up to three quarters, each in a different sport and each sport to be credited once only. No more than 6 hours of physical education activity may be credited for graduation.

The curriculum for a major in the Department of Physical Education for Men consists of a total of 48 hours of theory and practice courses. Additionally, the 6 hours of activity courses required of all degree students must be taken by majors in sections specifically designed for them. This entire unit of specialization is intended to qualify young men for positions as teachers, coaches, or specialists in public and private elementary or secondary schools, colleges, universities, as well as other social agencies which promote physical activity programs. The curriculum is designed to meet the requirements of state departments of education and other agencies which have adopted professional standards.

Required courses and related experiences for the major are as follows:

1. Theory courses—101A, 101B, 303, 305, 330A, 330B, 341, 350, 354, Recreation and Outdoor Education 365 or one additional sports theory course, 370, 376, Health Education 460. Physiology 209 and 300 are prerequisites to 303, 305 and 376.
2. Practice courses—114, 115, 116, 117, 118, 119, 215, 216, 217, and the 6 hours of activity courses required of all degree students

which are specifically designed for majors and minors in physical education. These include 181, 182, 183, 208. All practice courses should be completed by the end of the sophomore year. Students who cannot swim must audit a beginner's course of instruction before enrolling for 117.

3. Elective courses—Students who minor in recreation or health education may substitute four hours of physical education electives for Health Education 460 or two hours for Recreation and Outdoor Education 365. Elective courses are 331A, 331B, 331C, 331D, 331E, 331F, 345A, 345B, 345C.

4. Student Teaching and Observation—Complete and integrated experience in teaching physical education and assisting in coaching under qualified supervisors is provided students in the University School and in co-operating schools in and near Carbondale.

5. Related Professional Experiences—Other valuable experiences are provided majors in physical education to supplement the regular course work. Some of these are gained through membership in the Physical Education Majors Club, membership in professional associations, on the inter-collegiate and intramural athletic teams as participants, officials and managers, assisting in service class testing, attendance at clinics, workshops, conventions, and conferences, reading of professional journals, "I" Club membership, and others.

Students who wish to minor in physical education must complete thirty hours of courses as follows: 101A, 101B, 341, 350, 354, 370, 376, (Physiology 300 is a prerequisite to 376), and two hours from any of 330A, 330B, 331B, 331C. In addition, minors must complete the following practice courses: 115, 116, 117, 215, 216, and 217, plus the 6 hours of activity courses required of all degree students in sections specifically designed for majors and minors.

COURSE DESCRIPTIONS

101A-1/2. ORIENTATION PRACTICUM IN PHYSICAL EDUCATION I. Intended to introduce the student to his professional field, to enable him to secure a concept of the role of physical education in total education, and to crystallize his thinking in relation to vocational objectives. First term freshman year.

101B-1/2. ORIENTATION PRACTICUM IN PHYSICAL EDUCATION II. Presents significant historical aspects of physical education and its role in the broad cultural heritage in order to provide an interpretation and perspective to contemporary issues and developments. Second term freshman year.

- 114-1. METHODS AND MATERIALS OF TEACHING WRESTLING. Enables the student to master the fundamental skills of wrestling as well as to teach the individual and group methods of wrestling instruction. Freshman year.
- 115-2. METHODS AND MATERIALS OF COACHING BASEBALL. Development of the practical skills and ability to teach and coach the techniques of batting, fielding, and playing the various positions in the game. Freshman year.
- 116-2. METHODS AND MATERIALS OF TEACHING GYMNASTICS. To develop individual techniques in stunts and tumbling, calisthenics, parallel bars, side horses, trampoline, and high bar; fundamental skills, individual and group methods of instruction. Freshman year.
- 117-1. METHODS AND MATERIALS OF TEACHING SWIMMING. Stresses techniques and methods of teaching applied to individual and group instruction. Basic strokes, underwater swimming, elementary diving, body and breath control, self support, and watermanship. Freshman year. Prerequisite for nonswimmers: audit beginner's swimming course.
- 118-1. METHODS AND MATERIALS OF TEACHING TENNIS. Enables the student to acquire, through practice, the knowledge and skills necessary to teach these activities; includes consideration of desirable teaching materials to enhance instruction. Freshman year.
- 119-1. METHODS AND MATERIALS OF TEACHING GOLF. To prepare the student to teach the fundamental aspects of golf, with emphasis on adaptation to varied approaches in teaching. Freshman year.
- 149-1. ADAPTED AND RESTRICTED PHYSICAL EDUCATION. For students with physical handicaps.
- 170-2. VARSITY FOOTBALL.
- 171-2. VARSITY BASKETBALL.
- 172-2. VARSITY TRACK.
- 173-2. VARSITY TENNIS.
- 174-2. VARSITY GYMNASTICS.
- 175-2. VARSITY BASEBALL.
- 176-2. VARSITY GOLF.
- 177-2. VARSITY SWIMMING.
- 178-2. VARSITY CROSS COUNTRY.
- 179-2. VARSITY WRESTLING.
- 180-1. PERSONAL DESIGN FOR BETTER LIVING.
- 181-1. FRESHMAN REQUIRED PHYSICAL EDUCATION (TEAM GAMES I).
- 182-1. FRESHMAN REQUIRED PHYSICAL EDUCATION (BASIC RHYTHMS I).
- 183-1. FRESHMAN REQUIRED PHYSICAL EDUCATION (TEAM GAMES II).
- 184-1. VOLLEYBALL AND TOUCH FOOTBALL.
- 185-1. SOCCER.
- 186-1. SPEEDBALL.
- 188-1. PERSONAL DEFENSE AND SOFTBALL.
- 189-1. BASKETBALL AND TRACK.
- 190-1. WRESTLING.

- 191-1. CROSS COUNTRY.
- 192-1. STUNTS AND TUMBLING.
- 193-1. GYMNASTICS.
- 194-1. TRACK AND FIELD.
- 198-1. BEGINNING SWIMMING.
- 199-1. INTERMEDIATE SWIMMING.
- 202-1. WRESTLING TECHNIQUES.
- 203-1. ELEMENTARY SWIMMING.
- 204-1. INTERMEDIATE SWIMMING.
- 205-1. ADVANCED SWIMMING.
- 206-1. STUNTS AND TUMBLING.
- 207-1. APPARATUS.
- 208-1. AMERICAN SQUARE DANCING AND MIXERS.
- 210-2. BASKETBALL TECHNIQUES.
- 215-2. METHODS AND MATERIALS OF COACHING TRACK AND FIELD.
Students gain practical experience as a foundation for learning the techniques of teaching the running and field events. Emphasis on individual analysis of movement for effective teaching. Freshman year.
- 216-2. METHODS AND MATERIALS OF COACHING BASKETBALL. Deals with individual and team fundamentals with special emphasis on passing, pivoting, shooting, dribbling, and variety of play patterns concerned with offense and defense. Basic methods of teaching and coaching. Sophomore year.
- 217-2. METHODS AND MATERIALS OF COACHING FOOTBALL. Individual instruction and practice in all the fundamentals of the game such as passing, kicking, blocking, tackling, running. Emphasis on effective methods of teaching and coaching. Sophomore year.
- 220-1. RECREATIONAL ACTIVITIES AND GAMES (OUTDOOR).
- 221-1. RECREATIONAL ACTIVITIES AND GAMES (INDOOR).
- 224-1. TAP DANCING.
- 230-1. BASIC RHYTHM AND FOLK DANCING.
- 233-1. MODERN DANCE.
- 239-1. SOCIAL DANCING.
- 240-1. GOLF TECHNIQUES.
- 249-1. ADAPTED AND RESTRICTED PHYSICAL EDUCATION. For students with physical handicaps.
- 254-1. BOWLING.
- 256-2. TRACK AND FIELD TECHNIQUES.
- 257-2. FOOTBALL TECHNIQUES.
- 272-2. BASEBALL TECHNIQUES.
- 280-1. GOLF.
- 281-1. FLY AND BAIT CASTING.
- 283-1. WEIGHT LIFTING.
- 284-1. ICE SKATING.
- 285-1. BASKETBALL.
- 286-1. TRAMPOLINE.
- 287-1. ARCHERY.
- 288-1. BADMINTON.

- 289-1. INTERMEDIATE GYMNASTICS.
290-1. TENNIS.
291-1. INTERMEDIATE TUMBLING.
292-1. INTERMEDIATE VOLLEYBALL.
293-1. INTERMEDIATE SOCCER.
294-1. INTERMEDIATE WRESTLING.
295-1. INTERMEDIATE TENNIS.
297-1. DIVING.
298-1. ELEMENTARY SWIMMING.
299-1. ADVANCED SWIMMING.
303-5. KINESIOLOGY. Study of joint and muscle action as a basis for the mechanical analysis of human physical movement executed in daily life and in physical education activities and sports. Prerequisite: Physiology 300.
305-2. PHYSICAL EDUCATION FOR THE ATYPICAL STUDENT. Deals with the recognition of physical deviations from the normal student and with the provisions of special or modified physical education or recreational activities for such students. Prerequisites: Physiology 209 and 300.
306-1. ADVANCED STUNTS AND TUMBLING.
307-1. ADVANCED APPARATUS.
317-1. LIFE SAVING AND WATER SAFETY.
330A-2. THEORY OF BASKETBALL COACHING. Different types of offense and defense studied; special emphasis given to early season conditioning and practice, offensive and defensive drills, team strategy, rules of the game. Prerequisite: 216.
330B-2. THEORY OF FOOTBALL COACHING. Deals with all phases of the game; offensive and defensive formation analyzed; strengths and weaknesses of each studied; various types of individual plays analyzed; rules discussed. Prerequisite: 217.
331A-2. THEORY OF SWIMMING COACHING. Treatment of foundations and principles underlying coaching methods; comparative study differences in prevailing theories and methods; development of programs of training in pre-season, mid-season, and post-season of competition. Prerequisite: 117.
331B-2. THEORY OF BASEBALL COACHING. A study of the strategy of the game; the conduct of daily practice; analysis of the rules and their application to play situations. Also effective methods of coaching for best results. Prerequisite: 115.
331C-2. THEORY OF TRACK AND FIELD COACHING. Theoretical concepts dealing with the effective performance in running and field events; special emphasis on methods of training for such events; methods of organizing and conducting track and field meets. Prerequisite: 215.
331D-2. THEORY OF WRESTLING COACHING. Prepares students to develop program of wrestling; includes comparative knowledge of problems, techniques, materials, and systems in coaching wrestling as well as the organization and administration of the wrestling program. Prerequisite: 114.
331E-2. THEORY OF TENNIS COACHING. Theory of advanced strokes,

- strategy and tactics, scheduling and conducting matches, tournaments, exhibitions and clinics; officiating; organizing and promoting development programs. Prerequisite: 118.
- 331F-2. THEORY OF GYMNASTIC COACHING. Deals with all phases of gymnastics; organization of dual meets, championships, and exhibitional teams; practice schedules; care and purchase of equipment; development and evaluation of exercises and routines; techniques of judging. Prerequisite: 116.
- 335-2. ADMINISTRATION OF AQUATICS. The organization, administration, and supervision of aquatic programs in institutional and community swimming pools and camp waterfronts; the construction, operation, and maintenance of pools and waterfronts; personnel and program problems.
- 341-3. PRINCIPLES OF PHYSICAL EDUCATION. An understanding of the scientific foundations of physical education as implied by the accepted principles of psychology, physiology, sociology, biology, educational method of philosophy, anatomy, kinesiology, and related areas. Senior year.
- 345A-1. OFFICIATING OF FALL SPORTS. Interpretation of rules in football, cross country, and soccer; techniques of officiating; code of ethics, for officials and players; problems of officiating. Officiating practice required.
- 345B-1. OFFICIATING OF WINTER SPORTS. Interpretation of rules in basketball, wrestling, and swimming; techniques of officiating; code of ethics for officials and players; problems of officiating. Officiating practice required.
- 345C-1. OFFICIATING OF SPRING SPORTS. Interpretation of rules in baseball, track and field, tennis and golf; techniques of officiating; code of ethics for officials and players; problems of officiating. Officiating practice required.
- 350-3. METHODS AND MATERIALS FOR TEACHING PHYSICAL EDUCATION ACTIVITIES IN THE ELEMENTARY SCHOOL. The organization and conduct of the program with special emphasis on program planning, evaluation of materials, observation and practice in creative rhythms, singing games, folk dancing, and games of low organization. 2 hours lecture; 2 hours laboratory.
- 354-4. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION AND ATHLETICS. The organization and conduct of the total program of physical education including interscholastic athletics based upon accepted educational policies and practices. Emphasis on problems of administration.
- 365-2 to 4. ORGANIZATION AND ADMINISTRATION OF COMMUNITY RECREATION. The social, economic, and governmental structure of the community; establishing the community recreation program; problems of facilities; equipment, finance, promotion; selecting and supervising personnel integration with associated programs.
- 370-3 to 4. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION. Measurement as an aid in determining student needs, curriculum construction, teaching effectiveness, and the attainment of educational objectives. Includes the selection, administration, and interpretation of tests. 2 hours lecture; 2 hours laboratory.

376-3. EMERGENCY CARE AND PREVENTION OF ATHLETIC INJURIES. The theoretical and practical methods of preventing and treating athletic injuries; techniques of taping and bandaging; emergency first aid; massage; use of physical therapy modalities. 2 hours lecture; 2 hours laboratory. Prerequisite: Physiology 300 (majors).

377-1. HORSEBACK RIDING.

378-1. CANOEING AND BOATING.

Physical education courses on the 400 and 500 levels are offered on a combined basis for both men and women.

400-4. EVALUATION IN PHYSICAL EDUCATION. Historical background of measurement in physical education; selection and evaluation of contemporary testing devices; structure and use of tests; administering the testing program; and interpretation and application of results. Fulfills the tests and measurements course requirements for the degree of Master of Science in Education.

402-3. ORGANIZATION AND ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL ACTIVITIES. Planning intramural programs of sports; planning and co-ordinating extramural activities commonly associated with physical education.

403-4. THE ADAPTATION OF PHYSICAL AND RECREATIONAL ACTIVITIES TO THE HANDICAPPED INDIVIDUAL. Recognition of postural deviations; devising and planning programs for the physically atypical.

404-4. THE TEACHING OF SPORTS. Teaching methods, officiating, organization, safety precautions, and selecting equipment for sports.

405-4. CURRENT THEORIES AND PRACTICES IN THE TEACHING OF DANCE. History and evolution of dance; place of dance in education and recreation.

406-4. BASIC CONCEPTS OF PHYSICAL EDUCATION. The place of physical education in the school program, and the concepts underlying the program. (Required of all students not presenting the undergraduate courses 354 or 340.)

408-2 to 4. WORKSHOP—PHYSICAL FITNESS: ITS ROLE AND APPLICATION IN EDUCATION. Improvement of programs and teaching techniques involved in the development of various aspects of physical fitness. Units on postural status; body weight control; tension factors, causes, and control; exercise tolerance; and general body mechanics and control.

420-3. PHYSIOLOGICAL EFFECTS OF MOTOR ACTIVITY. The general physiological effect of motor activity upon the structure and function of body organs; specific effect of exercise on the muscular system. Prerequisite: Physiology 209 or equivalent.

Courses on the 500 level are for graduate students only.

500-4. TECHNIQUES OF RESEARCH. Critical analysis of research literature; study of research methods and planning research studies. Prerequisite: 400 or concomitant registration in 400.

501-4. CURRICULUM IN PHYSICAL EDUCATION. The aims, objectives, and goals of physical education and recreation; principles and procedures

- for curriculum construction; and criteria for selecting activities and judging outcomes.
- 502-4. FOUNDATIONS OF MOTOR SKILLS. Application of physiological, kinesiological, and mechanical principles to intelligent control of large-muscle motor activities. Recommended background, a course in kinesiology.
- 503-4. SEMINAR. Lectures, discussion, and critiques in physical education and related fields. Recommended background, 500 or equivalent.
- 504-4. PROBLEMS IN PHYSICAL EDUCATION. Planning, conducting, and reporting original research studies. Prerequisite: 500 or equivalent.
- 507-4. SCIENTIFIC BASIS OF ATHLETIC TRAINING. Study of the factors which affect maximum human performance in athletic competition.
- 508-3. ADMINISTRATION OF INTERSCHOOL ATHLETICS. Existing problems in interschool athletics, with particular attention to secondary school athletic programs.
- 509-4. SUPERVISION OF HEALTH AND PHYSICAL EDUCATION. The functions of supervision in physical and health education; basic principles and methods of supervision. Techniques and methods for increasing the effectiveness of the program at the elementary and high school levels.
- 510A-2, 510B-2. MOTOR DEVELOPMENT. (A) Early patterns of motor behavior and the development of physical skills in childhood. (B) The development of physical abilities during adolescence. Individual differences in motor proficiency and factors affecting the acquisition of motor skills. Concepts of motor learning with inferences for improving instructional practices.
- 525-1 to 6. READINGS IN PHYSICAL EDUCATION. Supervised reading in selected subjects. Prerequisite: consent of instructor and chairman of department. Open only to last-term seniors and graduate students.
- 599-3 to 9. THESIS.

PHYSICAL EDUCATION FOR WOMEN

Professor Dorothy Davies, Ed.D. (Cincinnati), Chairman	1939
Professor Helen Zimmerman, Ph.D. (Wisconsin)	1952
Associate Professor Marjorie Bond, Ph.D. (California)	1961
Assistant Professor Dorothy M. Muzzey, M.A. (Iowa)	1928
Assistant Professor Jean Stehr, M.A. (Texas State College for Women)	1944
Instructor Elsie Jane Cobb, M.S. (Ohio)	1956
Instructor Sarah Jane Daqqaq, M.Ed. (North Carolina)	1955
Instructor Yvonne Grace Dempsey, M.S. (Wisconsin)	1955
Instructor Joanne Lee Thorpe, M.Ed. (North Carolina)	1958
Instructor Charlotte West, M.Ed. (North Carolina)	1957
Instructor Virginia Ellen Young, M.Ed. (Boston)	1956

Assistant Instructor Margaret Clemens
Lecturer Shirley Wood, M.S. (Indiana)

1953-60
1961

The Department of Physical Education for Women offers courses leading to the Bachelor of Science in Education degree. A physical education major consists of forty-eight hours in addition to the six activity courses required in the general requirements and eight hours of health education.

The activity courses presented for graduation must include three courses on the 100 level and three courses on the 200 or 300 level.¹

Students who are advised by the university physician to restrict their activity should register for freshman courses marked "A" unless otherwise advised by the departmental representative.

In addition to the general degree and the College of Education requirements, courses constituting a major in physical education are 303, 304, 305, 306, 307, 308, 309, 350, 351, 352, 353, 354, 355; Health Education 334s, 460 and the required activity courses² 101B, 120, 127, 212, 216, 223, 230, 233, and 239.

Electives for the physical education major are 214, 215, 222, 254, 255, and 317 (choice of three); 208 and 374 (choice of one); 311A, 311B, 345, 376, (choice of two).

Thirty hours are required for a minor in physical education. Any girl wishing to minor should consult the chairman of the department to work out a course of study. A girl may take a minor in teaching elementary school physical education, or she may take a minor in teaching secondary school physical education.

A student desiring a suggested course plan for her four-year period may secure one from the departmental office.

COURSE DESCRIPTIONS

BASIC MOVEMENT

127-1. BASIC BODY MOVEMENT.

FRESHMAN TEAM SPORTS

101B-1. SPEEDBALL. Techniques, skills, and team tactics. For freshmen only.

¹Not more than one activity course may be taken in any one quarter without special permission from the department.

²Any major may take a test and be exempt from these required activities. She will then be advised to substitute an unfamiliar activity for an exempted one.

- 101H-1. HOCKEY. Techniques, skills, and team tactics. For freshmen.
- 101S-1. SOCCER. Techniques, skills, and team tactics. For freshmen only.
- 102-1. BASKETBALL.
- 103-1. VOLLEYBALL AND FOLK DANCING.

FRESHMAN INDIVIDUAL PHYSICAL EDUCATION

- 101A-1, 102A-1, 103A-1. INDIVIDUAL PHYSICAL EDUCATION. A course for students who are physically unable to participate in the regular physical education activities.

SWIMMING

- 100-1, (204-1). BEGINNING SWIMMING.
- 120-1, (205-1). INTERMEDIATE SWIMMING.
- 228-1. DIVING.
- 316-1. ADVANCED SWIMMING.
- 317-1. LIFE SAVING AND WATER SAFETY. Techniques of Red Cross Life Saving and Water Safety.

SOPHOMORE TEAM SPORTS

- 206-1. VOLLEYBALL. A course on advanced techniques and team tactics for the game of volleyball.
- 212-1. BASKETBALL.
- 213-1. SOFTBALL.
- 223-1. HOCKEY. Techniques and skills.

SOPHOMORE INDIVIDUAL SPORTS

- 214-1. ARCHERY.
- 215-1. BADMINTON.
- 216-1. TENNIS.
- 218-1. RECREATIONAL SPORTS. Badminton, duck pins, and other recreational sports.
- 222-1. GOLF. Strokes, rules and regulations of the game.
- 254-1. BOWLING. (Fee required)
- 255-1. FENCING.

SOPHOMORE ADAPTED PHYSICAL EDUCATION

- 201A-1, 202A-1, 203A-1. ADAPTED PHYSICAL EDUCATION. Hours to be arranged by conference.

MODERN DANCE

- 107-1. FUNDAMENTAL RHYTHMS.
- 233-1. MODERN DANCE. Fundamentals of movement and composition. A basic course leading to the creating of contemporary dance composition.
- 376-1. ADVANCED MODERN DANCING. Prerequisite: 233, or consent of instructor.

FOLK, SQUARE, SOCIAL AND TAP DANCE

- 208-1. AMERICAN SQUARE DANCE AND MIXERS. A course presenting the square dances common in various geographical areas of the United

States: Additionally, many of the mixers or get-acquainted dances for starting parties.

224-1. TAP DANCING. Fundamentals and routines.

230-1. FOLK DANCING. Fundamental steps and dances of various countries.

239-1. SOCIAL DANCING. Fundamental steps of ballroom dancing. For beginners only.

374-1. ADVANCED DANCING. (Folk)

JUNIOR INDIVIDUAL ACTIVITIES

377-1. HORSEBACK RIDING. (Fee required)

378-1. CANOEING AND BOATING. Prerequisite: 120 or 205. (Fee required)

OFFICIATING

311A-1. THEORY OF OFFICIATING BASKETBALL. Study of requirements of a nationally-rated official as set up by the Division of Girls' and Women's Sports.

311B-1. THEORY OF OFFICIATING BASKETBALL. Prerequisite: 311A or equivalent.

TEACHING PHYSICAL EDUCATION IN ELEMENTARY SCHOOL

318-4. THE TEACHING OF PHYSICAL EDUCATION FOR KINDERGARTEN-PRIMARY CHILD. A study of physical activities that meet the needs of the kindergarten-primary child. Movement fundamentals, games, rhythms, self-testing, and apparatus play, and creative activities. To fulfill the requirements of the state of Illinois for kindergarten-primary teachers.

319-4. TEACHING ELEMENTARY SCHOOL GROUP ACTIVITIES. Study of age characteristics; planning of an activity program for all grade levels; care of equipment; techniques of teaching activities for elementary grades. To fulfill the requirements of the state of Illinois for elementary school teachers.

350-5. MATERIALS AND METHODS FOR TEACHING IN ELEMENTARY SCHOOLS. For supervisors and teachers of physical education. Curriculum planning, based on grade characteristics and educational philosophy, creative rhythms, singing games, folk dancing, games of low organization—skills, skill tests, lead-up games, stunts and tumbling.

TEACHING PHYSICAL EDUCATION IN SECONDARY SCHOOLS

301-2. TECHNIQUES OF TEACHING RECREATIONAL SPORTS. Analysis and methods of teaching badminton, deck tennis, volleytennis, table tennis, and other recreational sports.

304-2. TECHNIQUES OF TEACHING SOCCER AND VOLLEYBALL. Methods of teaching construction of daily lesson plans, and analysis of techniques.

305-2. TECHNIQUES OF TEACHING HOCKEY AND SPEEDBALL. Methods of teaching, construction of daily lesson plans, and analysis of techniques.

306-2. TECHNIQUES OF TEACHING BASKETBALL. Methods of teaching, construction of lesson plans, and analysis of techniques. A continuation of 304 and 305.

- 307-2. **TECHNIQUES OF TEACHING TUMBLING, STUNTS, TRACK AND FIELD.** A continuation of 306.
- 309-2. **TECHNIQUES OF TEACHING SOFTBALL, TENNIS, GYMNASTICS.** Methods of teaching, construction of lesson plans, and analysis of techniques. A continuation of 306.
- 360-4. **THE PHYSICAL EDUCATION PROGRAM FOR GIRLS IN JUNIOR AND SENIOR HIGH SCHOOLS.** Program planning, source materials, and selected physical activities.

CAMPING

- 348-2 to 4. **CAMP AND COMMUNITY LEADERSHIP.** Fundamentals of scouting, camping, and counseling. A weekend camping trip required.
- 349-2 to 4. **CAMPING EDUCATION.** Course designed to give the potential camp counselor an understanding of the camp; its physical set-up, equipment and necessary routines; its personnel, purposes, traditions, and possibilities.

PROFESSIONAL COURSES

- 303-5. **KINESIOLOGY.** The mechanical analysis of physical education activities through the study of joint and muscle action. Prerequisite: Anatomy.
- 308-5. **METHODS OF TEACHING DANCE.** A course dealing with each of the various types of dance, including fundamental progressions, and composition in each type. Prerequisites: 107, 230, and 233 or equivalent.
- 345-2. **SUPERVISION OF PHYSICAL EDUCATION.** The functions of the supervisor of physical education; program planning, grading and planning of the progression of activities and devices for improving instruction.
- 351-4. **RECREATION AND PHYSICAL EDUCATION FOR ATYPICAL HANDICAPPED INDIVIDUALS.** Techniques of physical examination; postural defects and their correction; activities suitable for the atypical; program building; and correlation of this program with the physical education curriculum.
- 353-4. **ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION.** Criteria for the selection of activities; the organization of classes, the policies and the personnel; the physical plant and its upkeep; the planning, utilization, and care of equipment in the physical education program.
- 355-3. **TECHNIQUES OF TEACHING SWIMMING.** Methods of teaching, analysis of strokes, and devices for teaching swimming and life saving. Prerequisite: 120 or 205 or equivalent.
- 361-1 to 4. **THE TEACHING OF TEAM SPORTS AND DANCE TO JUNIOR AND SENIOR HIGH SCHOOL GIRLS.** Techniques of teaching volleyball, basketball, soccer, and dance.
- 362-1 to 4. **TEACHING BASIC ACTIVITIES TO JUNIOR AND SENIOR HIGH SCHOOL GIRLS.** Teaching badminton, softball, basic movement, and recreational games.
- 370-3 to 4. **TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION.** The theory of measurement in health and physical education, the selection and administration of appropriate tests, and the interpretation of results. Projects required.

Physical education courses on the 400 and 500 levels are offered on a combined basis for both men and women. The course listings are under Physical Education for Men.

RECREATION AND OUTDOOR EDUCATION

Associate Professor Wm. H. Freeberg, D.Rec. (Indiana), Chairman	1942
Assistant Professor Loren Esten Taylor, Ed.D. (Columbia)	1957
Instructor William E. O'Brien, M.S. in P.Ed. (Indiana)	1948
Research Assistant Irvin M. Peithmann	1950

The recreation and outdoor education major curriculum is designed to develop professional leaders for many recreational positions. Graduates are qualified for employment as public recreation administrators, as directors of recreation in youth serving and semipublic organizations, as directors of industrial and institutional recreation programs, and as specialists in camping and outdoor education.

The recreation curriculum emphasizes the practical as well as the theoretical aspects of recreation leadership. It is an interdepartmental program and draws upon twenty-eight departments in seven schools of the University. It includes requirements for a sound general education background. In addition to the general education requirements of the University, several special courses are required in the general education field.

Students are expected to choose two areas of specialization in the activity field. The areas are music and dance, arts and crafts, drama, sports and games, and nature and conservation.

Major students will be required to complete at least 12 hours of field experience in three areas of their interest. Recreation majors are required to have 28 hours of professional recreation courses. Required courses include 201, 202, 301, 310 or 315. In addition to the professional recreation courses, majors are required to take 24 hours selected from Accounting 250, Geography 324, Industrial Education 303, Journalism 260, Management 170, Music 307, Physical Education for Women 319.

The recreation major is designed to allow students to choose between a school-centered and a community-, institutional-, or agency-centered program.

Those students who wish to major in recreation and desire to teach must fulfill all of the course requirements in the College of Education, including practice teaching.

Those students who do not intend to teach may substitute certain

course requirements in the College of Education and may substitute field experience work for their practice teaching requirements.

Students who major in recreation and do not fulfill all of the requirements in the College of Education for teaching must sign a statement indicating that they understand that they do not meet the state and college requirements for teaching.

Students majoring in recreation are encouraged to obtain the following certificates: American Red Cross First Aid certificate, American Red Cross Life Saving and Water certificate, American Camping Association Campcraft certificate. Other certificates in the activity and instructional areas are also available.

The undergraduate minor program includes 12 hours of required course work (201, 202, 301) and 12 hours of field work (311, 312, 313, 314). In addition, students should demonstrate proficiency in water safety skills before graduation. Students are encouraged to select additional courses, with the aid of their advisers, from appropriate fields in order to meet their needs and interests. Special consideration for minor programs will be given for those majoring in physical education, music, art, theater, or industrial education.

COURSE DESCRIPTIONS

- 201-4. INTRODUCTION TO RECREATION LEADERSHIP. Introduction to concepts of recreation, its nature, significance, and extent. Its application to schools, park departments, and municipalities.
- 202-4. ORGANIZATION AND DIRECTION OF RECREATION PROGRAMS. A study of essential elements in a community recreation program. Leadership area and facilities, activities, and organization methods.
- 301-4. PROGRAMS IN SCHOOL CAMPING AND OUTDOOR EDUCATION. Problems in school camping and their solution in specific cases, guidance in planning for school camp facilities, personnel and program, and patterns of administration and leadership techniques.
- 305-4. MAINTENANCE AND REPAIR OF RECREATION AREAS, FACILITIES, AND EQUIPMENT. A study of methods used in maintenance and repair of park and recreation areas, community centers, special play structures and apparatus, and various kinds of recreation equipment.
- 310-3. SOCIAL RECREATION. Materials and techniques for planning and conducting social activities for groups of varying sizes and ages in the many different social situations.
- 311-2 to 6. CAMP LEADERSHIP. (Field Experiences)
- 312-2 to 6. PLAYGROUND LEADERSHIP. (Field Experiences)
- 313-2 to 6. AGENCY. COMMUNITY CENTER, SOCIAL RECREATION LEADERSHIP. (Field Experiences)
- 314-2 to 6. INSTITUTIONAL RECREATION LEADERSHIP. (Field Experiences)

iences) Supervised leadership in a public agency or private agency or at the University Camp at Little Grassy Lake Campus. Emphasis on recreational activities common to such organizational programs. One regularly scheduled group meeting each week to discuss leadership problems and to co-ordinate materials, principles, and theory with practices in field work situations. Students to spend two hours a week for each hour of credit.

- 315-4. (THEATER) RECREATIONAL DRAMATICS. Principles, theory and techniques of producing all types of dramatic activities for recreation. Informal and impromptu drama for the playground and camping situations is stressed.
- 360-4. PLAYGROUND ADMINISTRATION. Practical study of such problems as providing facilities and equipment, setting up the program, budgeting and financing, selecting and supervising the personnel and building good will. One hour a day, four days a week.
- 365-2 to 4. THE ORGANIZATION AND ADMINISTRATION OF COMMUNITY RECREATION. Practical study of such problems as providing facilities and equipment, setting up the program, budgeting and financing, promotion, selecting and supervising the staff, and integrating the administration.
- 368-4. CAMPING ADMINISTRATION. To develop an understanding of accepted methods of selecting and managing personnel, planning programs, maintaining health and safety measures, preparing food, developing camp counselors, evaluating camps, administering business, and doing other related procedures involved in setting up and operating a camp.
- 413-4. SAFE AND HEALTHFUL LIVING OUTDOORS. (Same as Health Education 413s.)
- 450-4. PRINCIPLES AND INTERPRETATIONS OF RECREATION. Principles of recreation in relation to education and everyday life. Basic concepts underlying the interpretation of recreation and leisure in the light of economic, psychological, political, and social conditions.
- 470-4. RECREATION IN PUBLIC EDUCATION. Emphasis on current practices and trends in curriculum content, adult education, extracurricular activities, after-school and vacation programs, and co-operative programs with other agencies.
- 480-4. TECHNIQUES IN CAMPING. Preparation of material for use in camps; techniques of camp procedure, camp craft, woodmanship, and crafts.
- 510-2 to 6. SCHOOL CAMPING AND OUTDOOR EDUCATION WORKSHOP. Current practices in school camps; the training of leaders for school camps and the place of outdoor education in the school program.
- 520-4. RECREATION PROGRAM WORKSHOP. Bases for planning community programs of recreation. Scope of leisure opportunities; selection, evaluation, and adaptation of activities.
- 530-4. ORGANIZATION FOR COMMUNITY RECREATION. The development and administration of a recreation program. Community recreation, including developing facilities and co-ordinating community agencies.
- 540-4. RECREATION SURVEYS AND PLANNING OF FACILITIES. An analysis of scope, content, objectives, procedures, and types of recreational surveys and appraisals. Collection and analysis of data.

550-2 to 6. FIELD PROBLEMS—COMMUNITY RECREATION. Internship in school recreation and outdoor education with emphasis on administrative problems.

560-2 to 6. FIELD PROBLEMS. Internship in school recreation and outdoor education with emphasis on administrative problems.

SECONDARY EDUCATION

Professor Raymond H. Dey, Ed.D. (Washington University)	1946
Professor Claude J. Dykhouse, Ph.D. (Michigan)	1947
Professor Troy W. Edwards, Ed.D. (Indiana)	1947
Professor John D. Mees, Ed.D. (Indiana)	1946
Professor Clarence D. Samford, Ph.D. (New York), Chairman	1951
Associate Professor Ross Jean Fligor, Ph.D. (Michigan State)	1941
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Lecturer F. G. Macomber, Ed.D. (Stanford)	1961-62

The Department of Secondary Education concerns itself with the professional courses in education, selecting and meeting requirements for major and minor teaching areas, and advising generally those who plan to teach any age or grade in a secondary school.

A student in the College of Education who is preparing to teach on the secondary level may major in any of the following:

Art	Journalism
Biological Sciences	Language Arts
Business Teacher Education	Latin
Chemistry	Mathematics
English	Music
French	Physical Education
General Science	Physics
German	Recreation and Outdoor Education
Health Education	Social Studies
Health and Physical Education	Spanish
History	Speech
Home Economics	Theater ¹
Industrial Arts	

¹In choosing this major, the number of hours required is 36; a second major of 36 hours must also be chosen; a minor of 27 hours is also required.

A student in the College of Education must complete all general bachelor's degree requirements listed earlier in this bulletin. In the social

studies area he must take both American history and government. (History 201 or 202 and Government 101 or 300.) No general requirement in foreign language applies to the Department of Secondary Education; however, a reading knowledge of a foreign language is required unless the student's major is in art, business teacher education, health education, home economics, industrial arts, journalism, music, physical education, physics, social studies, or speech.

The major must be at least 48 hours, with a minor of sufficient hours to meet the minimum preparation for teaching in the various fields and subjects (the major and minor being in different fields), or the student may carry a 36-hour major with two approved minors. It is the policy of the College of Education that the courses, sequence, and prerequisites within the major area shall be approved by the department involved and that no changes, exemptions, or substitutions shall be allowed by the College of Education except upon the approval of the chairman of the major department. Additional elective hours in the major and minor fields are also encouraged.

In addition to general university and major and minor requirements, a student in secondary education has certain professional education requirements for certification. The following program is to be taken by a student in the College of Education. This program meets the state requirements and also offers opportunity for experiences designed to produce maximum teaching effectiveness. (New teacher certification requirements approved by the 1961 General Assembly, to become effective July 1, 1963, will necessitate a detailed re-evaluation of professional education requirements. The College of Education will make every effort to inform students, through Bulletin addenda and academic advisement, of changes in professional education requirements affecting graduation and certification.)

	HOURS
1. Educational Administration and Supervision 100, ¹	
Introduction to Teaching	3
or	
Educational Administration and Supervision 331,	
The American Educational Systems	3
2. Guidance 305, Educational Psychology	
or	
Psychology 303, Adolescent Psychology	4
3. Secondary Education 310, Principles of Secondary Education	4

¹Open to students enrolled in the College of Education and/or those who plan later to take twelve or more hours of student teaching. Educational Administration and Supervision 331 is recommended for others. Credit is not allowed for both 100 and 331.

4. Special Methods or Secondary Education 315	3
5. Educational Administration and Supervision 355, Philosophy of Education	4
6. Guidance 422	4
7. Instructional Materials 417, Audio-Visual Methods	4
8. Methods of Teaching Reading	3
9. Secondary Education 352, Student Teaching	12-16

Students in academic units other than the College of Education who desire to meet minimum standards for a Secondary School Certificate must satisfy the following requirements, effective July 1, 1963:

1. Graduation from a recognized institution of higher learning with a bachelor's degree.
2. Recommendation of the institution of which the student is a graduate.
3. Minimum course work as follows:
 - a. Sixty-three quarter hours in general education with 12 hours in language arts, 9 in science, 9 in social science including a course in American history and/or government, 9 in humanities, 6 in mathematics, 6 in health and physical education, 3 in general psychology, and 9 additional in any of these fields.
 - b. Twenty-seven quarter hours in professional education with work in each of the following fields: educational psychology, including human growth and development; methods and techniques of teaching; history and philosophy of education; guidance, tests and measurements; methods of teaching reading; instructional materials; and a minimum of 7.5 hours of student teaching in the secondary school.
 - c. One major area of specialization of 48 hours and one minor area of specialization of 30 to 36 hours, or three minor areas of specialization of 30 to 36 hours each. The major and minor areas of specialization must be in separate areas or subjects in accordance with minimum standards to teach those subjects in a recognized junior or senior high school.

Whether a student is in the College of Education or some other academic unit, he should be familiar with the requirements for admission to student teaching which are listed later in this bulletin.

Effective September 1, 1962, a student preparing for certification on the secondary level in the state of Illinois must meet the following specific preparation requirements for subject matter fields:

AGRICULTURE (NON-VOCATIONAL)

Twenty-four (24) semester hours in such areas as (1) soils and crops;

(2) animal husbandry; (3) agricultural economics; (4) rural sociology; (5) horticulture; and (6) forestry

ART

Twenty (20) semester hours in the field including an appropriate distribution in such areas as (1) painting and drawing; (2) two- and three-dimensional design; (3) crafts; (4) art education; and (5) history and appreciation of art

BUSINESS EDUCATION (NON-REIMBURSABLE)

Twenty (20) semester hours in the field including work in each one of the fields to be taught

COMMON LEARNINGS, CORE, UNIFIED STUDIES, OR OTHER COMBINED OFFERINGS

The requirements listed for recognition in each of the courses which this common learnings, core, unified studies, or other combined offerings stands in lieu of in the school's program of studies

DRAMATICS, SEE ENGLISH LANGUAGE ARTS

ENGLISH, SEE ENGLISH LANGUAGE ARTS

ENGLISH LANGUAGE ARTS

Twenty-four (24) semester hours in the field, including work selected to meet the demands of the chosen teaching areas, from (1) rhetoric and grammar; (2) American literature; (3) English or world literature; (4) reading guidance; (5) speech; (6) journalism; and (7) dramatics

FOREIGN LANGUAGE

Twenty (20) semester hours in each language field chosen for teaching

HEALTH INSTRUCTION

Twenty (20) semester hours including work in (1) school health education; (2) basic health sciences; and (3) applied health sciences

HOMEMAKING (NON-REIMBURSABLE)

Twenty-four (24) semester hours in the field including work in (1) foods and nutrition; (2) clothing and textiles; (3) home management; and (4) home and family life

INDUSTRIAL ARTS (NON-VOCATIONAL)

For teaching in a unit shop or a general shop, twenty-four (24) semester hours in the field, including work in each shop subject to be taught

(Vocational teachers who are approved to teach a specific trade or industrial subject and have experience in shop skills and knowledge of their trade may teach the same subject in the field of industrial arts without college preparatory courses in the subject. All other requirements for teaching industrial arts must be met.)

JOURNALISM, SEE ENGLISH LANGUAGE ARTS

MATHEMATICS

Twenty (20) semester hours in the field

MUSIC

Twenty (20) semester hours in the field including work in (1) applied music; (2) music theory; (3) conducting; (4) history of music; and (5) methods and materials for general public school music, and methods and materials for teaching string and wind instrument classes

PHYSICAL EDUCATION

Twenty (20) semester hours in the field including work in (1) team sports; (2) individual activities; (3) rhythms; (4) body mechanics and basic exercises; (5) organization and administration of physical education classes; and (6) health education

SAFETY AND DRIVER EDUCATION

Before September 1, 1960, sixteen (16) semester hours in the field including work in (1) general safety; (2) driver education; (3) traffic safety; (4) governmental safety problems; (5) industrial safety; (6) radiological safety and rescue; and (7) health education, including first aid

SCIENCE (BIOLOGICAL)

Twenty-four (24) semester hours in the field with the work distributed among the areas of botany, zoology, physiology, and bacteriology (The work in botany and zoology should be approximately equal in distribution of hours. The college preparation of a teacher of biology should include, in addition to botany and zoology, preparation in

economic biology, ecology, entomology, physiology, and bacteriology or a general course in biology which covers these areas.)

SCIENCE (PHYSICAL)

Twenty-four (24) semester hours in the field, with approximately (1) one-half of the work in chemistry; and (2) the other half in the physical science area. (Work in such other physical sciences as geology, astronomy, and physical geography is recommended.)

SCIENCE (GENERAL)

Twenty-four (24) semester hours in the field, with approximately (1) one-half of the work in biological science area; and (2) the other half in the physical science area

SHOPS, SEE INDUSTRIAL ARTS OR VOCATIONAL EDUCATION

SOCIAL STUDIES

Twenty-four (24) semester hours in the field including work in (1) world history; (2) United States history; (3) government; (4) economics; (5) sociology; and (6) geography

SPEECH, SEE ENGLISH LANGUAGE ARTS

VOCATIONAL EDUCATION

Teacher preparation requirements have been set up by the Illinois State Board of Vocational Education for schools participating in the reimbursable vocational programs. For recognition purposes the Superintendent of Public Instruction accepts these requirements in lieu of the requirements listed for the teachers of the non-reimbursable vocational subjects in each case.

COURSE DESCRIPTIONS

- 310-4. **PRINCIPLES OF SECONDARY EDUCATION.** This course presents the nature, objectives, and current practices found in secondary schools throughout America. Prerequisite: Guidance 305 or Psychology 303, completion of 18 or more quarter hours in a declared major or consent of instructor.
- 315-3. **HIGH SCHOOL METHODS.** Various types of procedures used for effective classroom teaching constitute the basis of study and discussion. The problem approach and unit method are stressed. Prerequisite: 310.
- 352-4 to 16. **STUDENT TEACHING.** (See Department of Student Teaching.)

- 357-4. INTRODUCTION TO COMMUNITY DEVELOPMENT. This course deals with the community as a setting for the high school. It is useful to those interested in secondary education and in the Department of Community Services and Development.
- 407-4. THE JUNIOR HIGH SCHOOL. The place of the junior high school in the organizational pattern, with major emphasis upon the areas of organization, administration, and curriculum.
- 422-4. TESTS AND MEASUREMENTS IN THE SECONDARY SCHOOL. (Same as Guidance 422.)
- 450-4 to 16. FIELD TRAINING IN COMMUNITY DEVELOPMENT METHODS.
- 470-4. EXTRA-CLASS ACTIVITIES. Student expected to specialize in one extra-class activity in terms of his own interests and needs. Prerequisite: consent of instructor.
- 473-4. WORKSHOP IN CITIZENSHIP EDUCATION. Designed to improve the teaching of citizenship in the schools. Emphasis upon curriculum, materials, methods. Use made of Citizenship Education Project resources.
- 490-4. WORKSHOP IN ECONOMICS EDUCATION. Designed to assist elementary and secondary school teachers in promoting economic understanding in the minds of their students through the translation of economic principles and problems into classroom teaching materials. (Same as Economics 490.)

Courses on the 500 level are for graduate students only.

- 508-4. SEMINAR: TRENDS IN SELECTED AREAS IN SECONDARY SCHOOLS. For students in advanced graduate work. Individual class members will read basic bibliography related to secondary education and read widely about trends in the area of their own teaching fields. Prerequisites: completion of half or more of the work leading to a master's degree and consent of the instructor.
- 550-4. CORE CURRICULUM IN THE SECONDARY SCHOOL. Designed to help students gain a functional understanding of the core concept. Techniques of selecting materials and the co-operative planning of units of work. Critical study of current practices in this field. Prerequisite: Educational Administration and Supervision 460.
- 562-4. WORKSHOP IN HIGH SCHOOL CURRICULUM. Designed to permit students to work in groups on problems related to the high school curriculum. Such problems should originate in the schools where the students are or will be employed. The point of view maintained is that procedures should be very democratic. The instructor serves as a coordinator of activity; resource people are used freely. Prerequisite: one graduate course in curriculum.
- 564-4. HIGH SCHOOL PRINCIPALSHIP. Designed to deal with problems met specifically by the high school principal. Emphasizes his role in relation to guidance, curriculum, schedule-making, extracurricular activities, public relations, budgeting of time, etc. Prerequisite: Educational Administration and Supervision 424 and consent of instructor.
- 575-2 to 4. INDIVIDUAL RESEARCH. The selection, investigation, and writing of a research topic, under the personal supervision of a member of the

departmental graduate staff, in one of the following areas: A. Curriculum, B. Supervision, C. Language Arts, D. Science, E. Reading, F. Social Studies, G. Problems in Secondary Education.

591-4. WORKSHOP IN CURRENT PROBLEMS IN SECONDARY EDUCATION. Designed primarily to help high school principals to work effectively and with the help of resource leadership on the most urgent problems confronting their schools. Discussion, reports, lectures, and final examination. Prerequisite: consent of instructor.

596-6 to 9. INDEPENDENT INVESTIGATION. A field study required of each student working for the sixth-year professional certificate. The work should be done in the setting of a school system where the student is employed or where full co-operation is extended. The study will involve selecting of the problem, surveying of pertinent literature, recording of results, and appropriate interpretations and summarizations.

597-1 to 3, 598-1 to 3, 599-1 to 3. THESIS.

600-1 to 48. DISSERTATION.

SPECIAL EDUCATION

Professor Oliver P. Kolstoe, Ph.D. (Iowa), Chairman 1956

Associate Professor B. Elizabeth McKay, Ph.D. (Syracuse) 1952

Assistant Professor Marjorie Stull, M.S. in Ed. (Southern Illinois) 1942

Assistant Professor Roger Marshall Frey, Ed.D. (Illinois) 1957

Lecturer Dan Stevens Rainey, M.S. in Ed. (Southern Illinois) 1958-60

The Department of Special Education offers undergraduate and graduate majors in special education leading to certification as teachers of specific kinds of exceptional children.

Students who are majoring in other areas of education may qualify for the above-mentioned special certificate for teachers of exceptional children by taking approximately twenty-four hours of special work. Usually these courses can be taken in place of regular electives, and can be obtained in the junior and senior years. This permits a student (by the time of graduation) to qualify for both his regular teaching certificate and the special certificate.

Required courses for a major in special education with a specialization in teaching the mentally retarded: students in the elementary education area must take Special Education 410, 413, 414, and 420; Psychology 301 or 303 and 412; Guidance 422; Speech Correction 428; 8 hours of student teaching with normal children and 12 hours of student teaching with mentally retarded children. Students in secondary education who wish to

qualify for this certification must have the above courses and may need to take additional courses required in the elementary education program but which are not required on the secondary level. These additional courses will need to be worked out on an individual student basis with his adviser. The major will also need to fulfill all general degree and College of Education requirements.

A major in special education with a specialization in other areas such as the orthopedically handicapped, deaf and hard of hearing, blind and partially sighted is available; consult the chairman of the department.

COURSE DESCRIPTIONS

- 200-2. ORIENTATION TO THE EDUCATION OF EXCEPTIONAL CHILDREN. A survey of exceptional children. Program modification by regular classroom teachers is stressed.
- 406-4. TECHNIQUES AND INTERPRETATION OF HEARING TESTING. (Same as Speech Correction 406.)
- 410-4. PROBLEMS AND CHARACTERISTICS OF THE MENTALLY RETARDED. Psychological problems, etiology, classification, objectives, and curriculum for mentally retarded children. Emphasis upon the principles of learning as they can be applied to this group. Observations. Prerequisite: consent of instructor.
- 411-4. EDUCATION OF THE PARTIALLY SIGHTED AND BLIND. A study of the objectives, curriculum, methods, and techniques of instruction of classes for the partially sighted. Special emphasis on sight conservation in the regular classroom, special equipment, and observation of sight-saving classes. Prerequisite: consent of instructor.
- 412-4. EDUCATION OF GIFTED CHILDREN. Designed to help teachers in the identification of and programming for gifted and talented children. Prerequisite: Guidance 305 or Psychology 301 or 303.
- 413-4. DIRECTED OBSERVATION OF EXCEPTIONAL CHILDREN. Provides student observation and participation in individual work with exceptional children. Prerequisite: consent of instructor.
- 414-4. THE EXCEPTIONAL CHILD. Physical, mental, emotional, and social traits of all types of exceptional children. Effects of handicaps in learning situations. Methods of differentiation and techniques for rehabilitation. Individual case studies used; observations and field trips. Prerequisites: Guidance 305, Psychology 301 or 303.
- 415-4. EDUCATION OF THE DEAF AND HARD OF HEARING. Methods of teaching reading and developing language sense in the deaf and hard of hearing. Tactile, visual, and kinesthetic experiences; hearing aids and other special equipment presented in terms of their educational application. Observations. Prerequisite: consent of instructor.
- 416-4. EDUCATION OF ORTHOPEDIC CHILDREN. Objectives, curriculum, methods, and techniques of instruction of classes for orthopedic children. Emphasis given to program organization, special types of equipment, and observation of classes for the orthopedic. Prerequisite: same as 410.

- 417-4. **THE ATYPICAL CHILD AND SOCIAL AGENCIES.** A survey of social agencies contributing to the welfare and care of exceptional children. Emphasis given to services rendered and to methods of contact and cost. Visits made to agencies and institutions; specialists invited to appear before the class. Prerequisites: Guidance 305 or Psychology 301 or 303, and Sociology 101.
- 418-4. **WORKSHOP IN SPECIAL EDUCATION.** Designed to promote better understanding of the psychological and educational problems of atypical children. Specialists used as consultants. Open to seniors and graduate students majoring in education, guidance, or special education.
- 419-4. **COMMUNICATION PROBLEMS OF THE DEAF AND HARD OF HEARING.** (Same as Speech Correction 419.) Objectives and techniques for the teaching of lip reading, speech conservation, and auditory training. Prerequisite: 406 or consent of instructor.
- 420-4. **METHODS AND MATERIALS FOR TEACHING EXCEPTIONAL CHILDREN.** Offered in conjunction with practice teaching, dealing with methods and materials needed in teaching specific types of exceptional children.
- 428-4. **SPEECH CORRECTION FOR THE CLASSROOM TEACHER.** (Same as Speech Correction 428.)
- 481-4. **SEMINAR.**

Courses on the 500 level are for graduate students only.

- 501-4. **SPECIAL RESEARCH PROBLEM.** For majors in the areas of special education. Choosing and conducting research activities. The student to select a topic for research and present it, upon completion, to the staff. Prerequisite: consent of staff.
- 513-4. **ORGANIZATION, ADMINISTRATION, AND SUPERVISION OF SPECIAL CLASSES.** Emphasis upon the functions, underlying principles, and cautions to be observed in the organization and administration of special classes. The selection and training of teachers, problems of supervision, special equipment, transportation, co-operating agencies, and legal aspects of the program. Prerequisites: Guidance 305, Psychology 301 or 303.
- 570-2. **SEMINAR: VOCATIONAL GUIDANCE OF THE HANDICAPPED.** Examination of vocational problems of the handicapped. Vocations open to handicapped; requisites for success. Advanced majors only.
- 571-2, 572-2. **SPECIAL PROBLEMS OF THE HANDICAPPED.** Program development and training of handicapped individuals with special emphasis on the socio-psychological aspects of disability.
- 573-3 to 4. **PSYCHODIAGNOSTICS FOR SPECIAL POPULATIONS.** (Same as Psychology 546.)
- 574-1 to 12. **SUPERVISED EXPERIENCE IN REHABILITATION.** Provides for experience both on and off campus in counseling, interviewing, case study, and placement of rehabilitation clients under adequate supervision.
- 577-4 to 12. **PRACTICUM IN SPECIAL EDUCATION.** Practical experience in working with atypical children. A minimum of 8 to 12 hours per week in the classroom with atypical children who exemplify this area of specialization. Special research project.

- 596-5 to 9. INDEPENDENT INVESTIGATION. A field study required of each student working for the sixth-year professional certificate. The work should be done in the setting of a school system where the student is employed or where full co-operation is extended. The study will involve selecting of the problem, surveying of pertinent literature, recording of results, and appropriate interpretations and summarizations.
- 599-5 to 9. THESIS.

STUDENT TEACHING

Director Charles D. Neal, Ed.D. (Indiana)	1948
Assistant Director Jo Ann Boydston, Ph.D. (Columbia)	1955-60
Professor Anna Carol Fults, Ph.D. (Ohio State)	1952
Associate Professor John H. Erickson, Ed.D. (Pennsylvania State)	1955
Associate Professor Wm. H. Freeberg, D.Rec. (Indiana)	1942
Associate Professor Harves Rahe, Ed.D. (Indiana)	1944-46; 1950
Associate Professor Herbert F. A. Smith, Ph.D. (Michigan)	1957
Assistant Professor Cleo D. Carter, Ed.D. (Indiana)	1959
Instructor William Brown, M.S. in Ed. (University of Missouri)	1957
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Lecturer Joyce M. Bradfield, M.A. (George Peabody)	1960-61

Supervised student teaching is conducted at Southern Illinois University in the University School and in co-operating public schools, both in and near Carbondale. The College of Education requires 12 to 16 hours of student teaching for the Bachelor of Science in Education degree. Students are expected to enroll for the entire 12 or 16 hours during one quarter.

One of the following professional-quarter plans of student teaching must be pursued by the student with the approval of the director of Student Teaching.

ELEMENTARY PROFESSIONAL QUARTER

The student teaching quarter is devoted to full-time student teaching in an approved off-campus center. Only a limited number of student teachers are scheduled in University School. The student teacher earns 16 hours of credit and is expected to be in the public school for the entire school day, following exactly the schedule of his public school supervisor. The schedule includes both regular and extra-class activities.

The university consultant calls a meeting of student teachers planning to do elementary student teaching at least one quarter in advance of the

student teaching quarter. The purpose of this meeting is to complete plans and answer questions pertaining to the professional quarter.

During the quarter the student is required to attend a seminar every two weeks. It is held on school time in one of the public schools in the town in which the student teacher does student teaching. The university consultant is in charge.

KINDERGARTEN-PRIMARY PROFESSIONAL QUARTER

The kindergarten-primary professional quarter is essentially the same as the one described for elementary student teachers with this exception: student teachers in this area teach full-time for a six-week period in either kindergarten or one of the primary grades. The teaching procedure is reversed at the beginning of the seventh week of each quarter.

SECONDARY PROFESSIONAL QUARTER

(Except Vocational Agriculture and Vocational Home Economics)

PLAN A. TWELVE QUARTER HOURS

This professional-quarter plan is designed for secondary student teachers in the College of Education and for other student teachers desiring a maximum amount of secondary student teaching offered by Southern Illinois University during any one quarter.

Student Teaching, Secondary Education 352B—12 hours or 352C—16 hours of student teaching credit and additional load hours may be earned by registering for courses in education taught by extension in the region, or courses in education taught on campus during the evening or on Saturday, and/or Secondary Education 375 (Readings, 2–3 hours) by arrangement with the Department of Secondary Education.

PLAN B. EIGHT QUARTER HOURS

This professional-quarter plan is designed for those student teachers wishing to meet state minimum certification requirements only.

The student teacher is assigned to teach three classes plus an extra-class activity if the supervisor is charged with such a responsibility. The student teacher has two hours of the daily schedule free of student teaching responsibilities for the purpose of preparing for his professional educational courses.

Student Teaching, Secondary Education 352A—8 hours of student teaching credit and additional load hours may be earned by registering for courses in education taught by extension in the region, or courses in

education taught on campus during the evenings or on Saturday, and/or Secondary Education 375 (Readings, 2-3 hours) by arrangement with the Department of Secondary Education.

VOCATIONAL AGRICULTURE PROFESSIONAL QUARTER

A student majoring in vocational agriculture must have a 3.5 grade point average before student teaching.

Psychology and education courses required include Psychology 201, Guidance 305, Educational Administration and Supervision 331, 355, and Secondary Education 310.

For the professional quarter the student registers for Agricultural Industries 307-2, Summer Practice; 309-5, Methods of Teaching Vocational Agriculture; 311-3, Adult Education in Vocational Agriculture; 312-8, Student Teaching.

Seniors preparing to be teachers of vocational agriculture do their student teaching in a professional quarter. The first five to six weeks of the quarter are devoted to an intensive study of methods, including both methods of teaching vocational agriculture in high school and adult education in agriculture. The last six weeks of the quarter are given to supervised teaching in an approved off-campus center.

In addition, all prospective teachers of vocational agriculture do two weeks of summer practice at the center where they later will student teach. This summer practice includes the week prior to and the first week of school. A combination handbook and workbook is provided each student for directed experiences. Altogether the student has eight weeks of practice experience.

The student is responsible for transportation to and from the center and also housing. It is recommended but not mandatory that the student teacher reside in the community while teaching. He is expected to remain on duty as long as the supervising teacher requires. He makes necessary visits after school hours to the homes of students to observe supervised farming programs. This may be true also for Saturday mornings. The student teacher is expected to attend all evening meetings such as the FFA, PTA, and adult farmer classes.

When the student teacher uses his personal car in visiting and supervising the vocational agriculture students' farming program, he records his mileage on appropriate forms provided by the supervising teacher and is reimbursed at the same rate as the supervising teacher by the local board of education.

VOCATIONAL HOME ECONOMICS PROFESSIONAL QUARTER

A professional-quarter student preparing to teach home economics should register for Secondary Education 352A-12, Home Economics Education 310-3, 311-2. (During the transition period those students who have earned credit for 311 may register for 572-2, Special Problems.)

For three-fourths of the quarter (approximately 9 weeks), the student does full-time student teaching in an approved off-campus center. During the first week of the quarter, the student reports for pre-student-teaching day and to the Department of Home Economics Education for intensive work in the courses listed above. Likewise, at the end of the off-campus student-teaching period the student reports for the remainder of the quarter including the examination period to the Department of Home Economics Education for further intensive work in the evaluation of student teaching.

In the off-campus student-teaching centers, students are assisted in locating housing by the university supervisors of home economics education and the local public school teacher. Students who live in university housing should indicate to the co-ordinator of housing the time when they will be off-campus for student teaching and/or Home Management House residence so that adjustments in contracts can be made. Students living in housing other than university housing should make arrangements directly with those involved.

The Department of Home Economics Education calls a meeting of students planning to do student teaching at least one quarter in advance of the student teaching period for completing plans for the professional quarter.

THE PROFESSIONAL QUARTER COMMITTEE

A representative from the College of Education, College of Liberal Arts and Sciences, School of Business, School of Fine Arts, School of Communications, School of Agriculture, School of Home Economics, and School of Technology serve on the Professional Quarter Committee. The purposes of this committee are as follows:

1. To recommend to the director of Student Teaching regulations and procedures applying to all student teachers working on the professional quarter plan.
2. To review petitions for special student teaching consideration where a

student feels that he is an exception to the rules and regulations pertaining to the professional quarter. In most cases final reviewing is made from a written request form known as the Petition for Special Student Teaching Consideration. However, the committee as a whole feels that students should not be denied an opportunity of presenting their own cases in person to the committee.

3. To afford each college and school that is concerned with student teaching a personal representative.

No student may pursue a student teaching assignment other than one described previously under one of several professional-quarter plans, unless approved by the Professional Quarter Committee. To request such approval, the student must complete two forms known as Petition for Special Student Teaching Consideration. These forms may be secured from the office of the director of Student Teaching, Room 15-D, University School. Petitions will be accepted for review by the Professional Quarter Committee no later than the end of the second week of the quarter preceding the student teaching quarter. However, petitions may be filed as early as the filing of the final application for student teaching.

Since student teaching is designed in terms of the needs of teachers for complete and integrated experience, and since more than one supervisor may be in charge of the work done by the student teacher, no part of the work may be dropped by the student teacher with the expectation of continuing the remainder of the work for credit. Furthermore, if one supervisor finds it necessary to drop a student teacher from a part of the program, the College of Education reserves the right to require such student teacher to drop all of his program of assigned student teaching rather than merely a part of it.

Two applications are necessary for student teaching. The preliminary or first application must be made during the first six weeks of the winter quarter, approximately one year prior to graduation. Student teachers are scheduled for either fall, winter, or spring quarter of the following year on the basis of information given on the preliminary application. A final, detailed, application blank must be filed prior to the quarter the student is scheduled for student teaching. A student scheduled to do student teaching during the fall or winter quarter should file his final application during the first two weeks of the preceding spring quarter. A student scheduled for student teaching during the spring quarter should file his final application during the first two weeks of the preceding fall quarter.

Application for student teaching by in-service teachers for the summer sessions should be made not later than March 1. Application blanks may be secured from the office of the director of Student Teaching.

STUDENT TEACHING PREREQUISITES

1. Preliminary application should be made to the director of Student Teaching during the winter quarter of the academic year prior to graduation.

2. A final, detailed application form must be completed two quarters prior to the student teaching assignment.

3. The student must have 128 hours credit with a "C" (3.0) average before beginning work in student teaching. Effective fall quarter, 1963, a student must have 128 hours of credit with a 3.2 average before beginning work in student teaching.

4. The student is responsible for having transcripts of credit earned at colleges or universities other than Southern Illinois University on file in the office of the director of Student Teaching.

5. The student in secondary education must have at least sixteen hours of credit in each subject which he proposes to teach. Such subjects must be public school major teaching subjects.

6. Students must have at least twelve hours in professional education courses prior to doing student teaching. Secondary education majors must have had general psychology, educational or adolescent psychology, high school methods, and Secondary Education 310. Elementary education majors must have had general psychology, educational or child psychology, reading methods, and elementary methods. Early childhood majors must have had general psychology, educational or child psychology, reading methods, and kindergarten-primary methods. They must also be approved in class piano and must have taken Secretarial and Business Education 113.

7. The student must have completed Speech 101 and received a grade of "C" or better and a favorable recommendation from the department.

8. Students majoring or minoring in English must have completed English 300, securing a grade of "C" or better. Other students must have completed English 391, securing a grade of "C" or better. Students may pass the undergraduate English Qualifying Examination in lieu of English 391.

9. The student must have at least one quarter of residence credit at Southern Illinois University, earning a minimum of sixteen hours of credit, prior to any student teaching assignment.

10. The student must pass satisfactorily a physical examination prior to doing student teaching. The examination is given by appointment at the University Health Service.

UNIVERSITY SCHOOL

Principal John D. Mees, Ed.D. (Indiana)	1946
Professor Ellen A. Frogner, Ph.D. (Minnesota)	1959
Associate Professor Mabel Lane Bartlett, Ed.D. (Washington University)	1943
Associate Professor Clyde M. Brown, Ed.D. (Missouri)	1951
Associate Professor William Ernest Buys, Ph.D. (Wisconsin)	1955
Associate Professor James Jenkins, Jr., D.Ed. (Pennsylvania State)	1956
Associate Professor Sina M. Mott, Ph.D. (New York), (Emerita, 1958)	1936
Associate Professor Dwain E. Small, Ph.D. (Indiana)	1955
Associate Professor Charles W. Southard, Ed.D. (Illinois)	1961
Assistant Professor Louise E. Bach, A.M. (Illinois)	1934
Assistant Professor Harold DeWeese, Ed.D. (Illinois)	1959
Assistant Professor Tina Mary Goodwin, M.A. (Columbia) (Emerita, 1961)	1947
Assistant Professor Elizabeth C. Meehan, A.M. (Illinois)	1941
Assistant Professor Charles Paterson, B.Ed. (Southern Illinois), (Emeritus, 1959)	1936
Assistant Professor Evelyn Davis Rieke, M.Ed. (Illinois), (Emerita, 1959)	1937
Assistant Professor Ora D. Rogers, A.M. (Illinois), (Emerita, 1954)	1928
Assistant Professor Madge T. Sanders, A.M. (Chicago), (Emerita, 1956)	1924
Assistant Professor Alice Schwartz, D.Ed. (Pennsylvania State)	1960
Assistant Professor Berniece B. Seiferth, Ed.D. (Missouri)	1955
Assistant Professor Gladys Leah Smith, M.A. (Columbia)	1931
Assistant Professor John W. Stotlar, Ph.D. (Indiana)	1948
Assistant Professor William H. Tarwater, Ph.D. (George Peabody)	1959
Assistant Professor Charles C. Taylor, Ed.D. (Columbia)	1957
Assistant Professor Harley R. Teel, A.M. (Illinois)	1935
Assistant Professor Robert Earl Thomas, Ph.D. (Illinois)	1957
Assistant Professor Florence A. Wells, A.M. (Illinois), (Emerita, 1946)	1927
Instructor E. L. Bencini, M.Ed. (Missouri)	1955
Instructor Richard Lee Benson, M.S. in Ed. (Illinois State Normal)	1957
Instructor Edra Tweedy Bricker, M.S. in Ed. (Southern Illinois)	1955

Instructor Zita Spradling, M.S. (Illinois)	1944
Instructor Madelyn Treece, A.M. (Chicago)	1937-38; 1940
<hr/>	
Lecturer Gwendolyn C. Brackett, B.A. in Ed. (Fairmont State Teachers College)	1959-62
Lecturer Billy G. Dixon, M.S. (Southern Illinois)	1961-62
Lecturer George Francis, M.S. (Stout)	1961-62
Lecturer Marcile Ann Franklin, M.S. in Ed. (Indiana)	1957-62
Lecturer Geraldine P. Frields, M.S. in Ed. (Southern Illinois)	1958-
Lecturer John Anthony Gelch, B.S. in Ed. (Southern Illinois)	1959-62
Lecturer Virginia Glenn, B.S. (Louisville)	1959-62
Lecturer Janice Gudde, M.S. in Ed. (Southern Illinois)	1961-62
Lecturer Carol Dean Hampton, M.S. in Ed. (Southern Illinois)	1959-62
Lecturer Arlene Heisler, M.S. (Southern Illinois)	1959-62
Lecturer Mildred Hindman, M.S. in Ed. (Southern Illinois)	1961-62
Lecturer Dan Stevens Rainey, M.S. in Ed. (Southern Illinois)	1958-62
Lecturer Eugenia Rothenberg, M.A. (Illinois)	1961-62
Lecturer Thomas Sill, M.S. in Ed. (Southern Illinois)	1961
Lecturer Anthony Vestuto, M.F.A. (Southern Illinois)	1961-62
Lecturer Ruth Bozarth Wood, M.A. (Illinois)	1958-62

The University School is a department within the College of Education. The major functions of University School are (1) to provide facilities for student teaching; (2) to provide opportunities for research; (3) to illustrate to prospective teachers, through demonstration teaching, a skillful application of educational principles; (4) to provide a superior educational opportunity for boys and girls enrolled; and (5) to exemplify to the public schools of Southern Illinois the best in school organization, curriculum, equipment, and methods of instruction.

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Southern Illinois University Foundation

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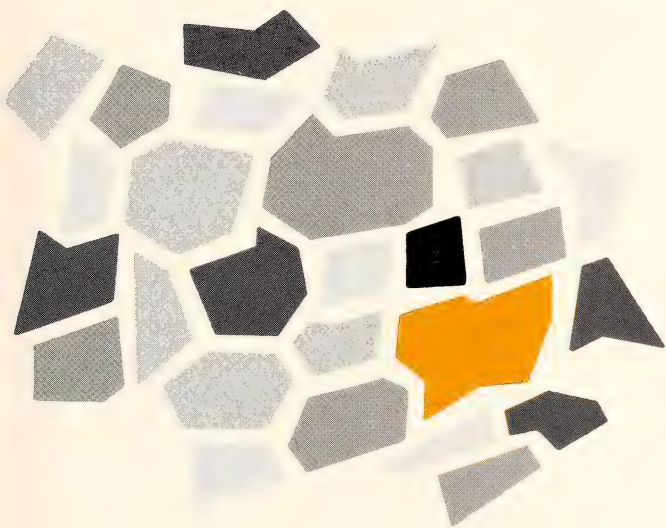
It respectfully asks alumni and other citizens of Southern Illinois to consider making gifts and bequests to benefit the University. Such gifts should be conveyed to the Foundation, with proper stipulation as to their uses. The Foundation, through its officers and members, will be glad to confer with intending donors regarding suitable clauses to insert in wills and suitable forms of gifts and memorials, including bequests by means of life insurance. Large or small gifts to the library will be appreciated; likewise, gifts for special equipment, buildings, endowment of professorships in particular subjects, gifts to student loan funds and scholarship funds, gifts for the use of foreign students, and endowments for particular sorts of research. Any gifts or bequests can be given suitable memorial names.

The staff members of the Foundation are

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Southern Illinois University

Bulletin



College of Liberal Arts and Sciences

CARBONDALE CAMPUS 1961-63

Objectives of Southern Illinois University

TO EXALT BEAUTY

IN GOD,
IN NATURE,
AND IN ART;
TEACHING HOW TO LOVE THE BEST
BUT TO KEEP THE HUMAN TOUCH;

TO ADVANCE LEARNING

IN ALL LINES OF TRUTH
WHEREVER THEY MAY LEAD,
SHOWING HOW TO THINK
RATHER THAN WHAT TO THINK,
ASSISTING THE POWERS
OF THE MIND
IN THEIR SELF-DEVELOPMENT;

TO FORWARD IDEAS AND IDEALS

IN OUR DEMOCRACY,
INSPIRING RESPECT FOR OTHERS
AS FOR OURSELVES,
EVER PROMOTING FREEDOM
WITH RESPONSIBILITY;

TO BECOME A CENTER OF ORDER AND LIGHT

THAT KNOWLEDGE MAY LEAD
TO UNDERSTANDING
AND UNDERSTANDING
TO WISDOM.

College of Liberal Arts and Sciences

Announcements for 1961-1963



SOUTHERN ILLINOIS UNIVERSITY BULLETIN
Volume 3 Number 11 December, 1961
Second-class postage paid at Carbondale, Illinois.
Published by Southern Illinois University, monthly
except in September, when published semimonthly.

The following issues of the *Southern Illinois University Bulletin* may be obtained without charge from General Publications, Southern Illinois University, Carbondale, Illinois.

General Information
Summer Session (Carbondale)
Summer Session (Edwardsville)
Schedule of Classes (Carbondale)
Schedule of Classes (Edwardsville)
General Announcements (Edwardsville)
Graduate School
College of Education
College of Liberal Arts and Sciences
School of Agriculture
School of Applied Science
School of Business
School of Communications
School of Fine Arts
School of Home Economics
University Institutes
Division of Technical and Adult Education

All intending students should have the General Information Bulletin (issued once a year), plus the special bulletins of the various educational units in which they are most interested.

Board of Trustees

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Acting Dean T. W. Abbott, Ph.D. (Illinois); Emeritus, 1961	1928
Acting Assistant Dean Amos Black, Ph.D. (Cornell)	1948
Acting Chief Academic Adviser Marjorie Shank, A.M. (Clark)	1923
Registrar and Director of Admissions Robert A. McGrath, Ph.D. (Iowa)	1949

This Bulletin . . .

covers in detail questions concerning the College of Liberal Arts and Sciences. It does not cover all questions concerning Southern Illinois University. For complete information about the University the prospective student should refer to the General Information bulletin.

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University Calendar, 1961-1962

SUMMER SESSION

Session Begins	Monday, June 19
Independence Day Holiday	Tuesday, July 4
Final Examinations	Wednesday-Thursday, August 9-10
Commencement	Friday, August 11

FALL QUARTER

New Student Week (Carbondale)	Sunday-Tuesday, September 17-19
New Student Week (Edwardsville)	Saturday-Sunday, September 16-17
Quarter Begins	Wednesday, September 20
Thanksgiving Recess	Wednesday, 12 noon-Monday, 8 A.M. November 22-27
Final Examinations	Monday-Saturday, December 11-16

WINTER QUARTER

Quarter Begins	Tuesday, January 2
Final Examinations (Carbondale)	Monday-Saturday, March 12-17
Final Examinations (Edwardsville)	Wednesday-Monday, March 14-19

SPRING QUARTER

Quarter Begins	Monday, March 26
Memorial Day Holiday	Wednesday, May 30
Final Examinations	Wednesday-Tuesday, June 6-12
Commencement (Carbondale)	Wednesday, June 13
Commencement (Edwardsville)	Thursday, June 14

Summer classes begin on Tuesday, June 20. During a quarter, Carbondale day classes begin on the second day of the quarter. Carbondale evening classes (5:45 P.M. or later) begin on the first day. Classes on the Edwardsville campuses begin on September 21, January 4, and March 28.

University Calendar, 1962-1963

SUMMER SESSION

Session Begins	Monday, June 18
Independence Day Holiday	Wednesday, July 4
Final Examinations (8-week session)	Wednesday–Thursday, August 8–9
Commencement	Friday, August 10
Final Examinations (Summer Quarter)	Thursday–Friday, August 30–31
Quarter Ends	Friday, August 31

FALL QUARTER

New Student Week	Friday–Sunday, September 21–23
Quarter Begins	Monday, September 24
Thanksgiving Recess	Wednesday, 12 noon–Monday, 8 A.M. November 21–26
Final Examinations	Wednesday–Tuesday, December 12–18

WINTER QUARTER

Quarter Begins	Wednesday, January 2
Final Examinations	Wednesday–Tuesday, March 13–19

SPRING QUARTER

Quarter Begins	Wednesday, March 27
Memorial Day Holiday	Thursday, May 30
Final Examinations	Thursday–Wednesday, June 6–12
Commencement (Carbondale)	Thursday, June 13
Commencement (Edwardsville)	Friday, June 14

Summer classes begin on Tuesday, June 19. During the fall, winter, and spring quarters, day classes begin on the second day of the quarter. Evening classes (5:30 P.M. or later) begin on the first day of the quarter.

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LANGUAGE AND PHILOSOPHY

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The University

SOUTHERN ILLINOIS UNIVERSITY was established in 1869 as Southern Illinois Normal University. The shortened name became official in 1947 by action of the state legislature.

For some years after its establishment, Southern operated as a two-year normal school. In 1907 it became a four-year, degree-granting institution, though continuing its two-year course until 1936. In 1943 the state legislature changed the institution, which had been in theory exclusively a teacher-training school, into a university, thereby taking official recognition of the great demand in the area for diversified training.

The Graduate School, approved in 1943, at first granted only the Master of Science in Education degree. In 1948 it was authorized to grant also the Master of Arts and Master of Science degrees. In 1952 the Master of Fine Arts degree was added to this list, and in 1955 the Doctor of Philosophy degree was added. The Master of Music and the Master of Music Education degrees were authorized in 1956.

In 1949 the Belleville Residence Center was established and the Alton and East St. Louis residence centers in 1957. In 1958 the Southwestern Illinois Residence Office was created to co-ordinate and direct the University's educational activities in the Madison-St. Clair counties area. In 1959 the Southwestern Illinois Campuses were recognized as a unit co-ordinate with the Carbondale campuses.

LOCATION

The general administrative offices for the University's campuses at Carbondale, Southern Acres, and Little Grassy Lake are located at Carbondale. The central administrative offices directing the University's educational programs at Alton and East St. Louis are located at Edwardsville.

The facilities at Carbondale now include more than twenty-five

hundred acres of land, thirty-six permanent buildings, and numerous temporary buildings. These buildings house classrooms, auditoriums, laboratories, libraries, offices, living quarters, cafeterias, and farm equipment and animals. The Little Grassy Lake and Southern Acres campuses are each about ten miles from Carbondale.

The facilities of the former Shurtleff College have been leased by the University for the operation of the Alton campus. The East St. Louis campus is located at the former East St. Louis High School building.

SESSIONS

The academic year is divided into three quarters. Each quarter is approximately twelve weeks in length.

The fall quarter opens near the middle of September and closes just prior to the Christmas vacation period. The winter quarter begins early in January and ends about the middle of March. The spring quarter begins the latter part of March and ends about the second week in June. Definite dates for each quarter may be found in the University Calendar.

In addition to the three quarters, there is an eight-week summer session which begins immediately following the close of the spring quarter. The summer session consists of a comprehensive program of courses offered by the departments of the University. In addition to the courses which run the full eight weeks, there are workshops and short courses covering shorter periods of time.

REGULATIONS

The University and its various instructional units reserve the right to change the rules regulating admission, instruction, and graduation; to change courses and fees; and to change any other regulation affecting the student body. Such regulations shall go into force whenever the proper authorities so determine, and shall apply both to prospective students and to those who have enrolled in the University.

Each student must assume responsibility for his progress by keeping an up-to-date record of the courses he has taken and by checking periodically with his adviser and the Registrar's Office. Responsibility for errors in program or in interpretation of regulations of the University rests entirely upon the student. Advice is always available on request.

A copy of the regulations governing student life may be obtained from the Office of Student Affairs on the campus which the student attends.

College of Liberal Arts and Sciences

AFTER THE LEGISLATIVE action in 1943, which changed Southern into a university, a College of Liberal Arts and Sciences was established. The official University Bulletin for 1943-44 gives requirements for the College of Arts and Sciences with sixteen departments.

The college has continued to strengthen its program until at the present time its departments number seventeen in addition to several special study areas such as Asian studies and Russian studies.

OBJECTIVES

The College of Liberal Arts and Sciences provides for specialized education in the fields of instruction covered by its departments. The college also is a service instructional unit for other colleges, schools, and institutes contributing both to the specialized and general education of their students.

A liberal arts education attempts to develop individuals with minds which are capable of seeking and evaluating; which are adaptable and independent.

FACILITIES

Owing to its geological history and location the Southern Illinois area is richly endowed floristically and faunistically, so that the area is outstanding for studies in the biological and earth sciences. A group of three greenhouses and headhouse and a herbarium of about 30,000 specimens are added special facilities for the biological sciences.

The antiquity of the land and its early occupancy by people make the area an excellent place for the study of archaic cultures. The more recent past is also rich historically.

Available for use by the physical and natural sciences and also other departments of the University is an electron microscope. Electronic computing machines are available in the Data Processing and Computing Center, and their uses and operation are taught in some mathematics courses.

PROGRAMS OF INSTRUCTION

DEGREE PROGRAMS

The College of Liberal Arts and Sciences grants the Bachelor of Arts degree with the following majors and minors. Suggested programs appear in the next chapter of this bulletin.

Anthropology	Geography	Philosophy
Art ¹	Geology	Physics
Asian Studies ²	Government	Physiology
Biological Sciences	Health Science	Psychology
Botany	History	Religion ²
Central European Studies ²	Home Economics ¹	Russian Studies ²
Chemistry	Inter-American Studies	Sociology
Economics ¹	Mathematics	Speech ¹
English	Microbiology	Theater ¹
Foreign Languages	Music ¹	Zoology

¹These are liberal arts majors, not professional majors. Course descriptions and suggested curricula appear in the following issues of the *Southern Illinois University Bulletin*: School of Fine Arts for art and music, School of Business for economics, School of Home Economics for home economics, School of Communications for speech and theater. See page ii for source of bulletins.

²Minors only.

PREPROFESSIONAL PROGRAMS

Students planning to take preprofessional courses in any of the following areas should register in the College of Liberal Arts and Sciences:

Dentistry	(3 or 4 years)	Pharmacy	(1 to 4 years)
Law	(3 or 4 years)	Physical Therapy	(2 or 3 years)
Medicine	(3 or 4 years)	Public Health	(3 or 4 years)
Medical Technology	(2 or 3 years)	Theology	(2 to 4 years)
Occupational Therapy	(2 or 3 years)	Veterinary Science	(3 or 4 years)

Preprofessional students may obtain, subject to certain conditions, a bachelor's degree after three years' work (144 quarter-hours) at Southern and one or more years' work in a professional school. During their three years of residence at Southern they need to have completed all requirements other than elective hours for the bachelor's degree which they are seeking. In some cases the completion of major and minor requirements is possible by their taking certain courses at the professional school, but this is permitted only upon the prior approval of the appropriate department chairman. Also, there needs to be completion of at least one year of professional work with acceptable grades in a Class A medical school, a Class A dental school, a Class A veterinary school, or an approved law school. In all cases, all university graduation requirements must be met. It is advisable for a student interested in this program to make his decision to seek a bachelor's degree before entering the professional school so that any questions may be clarified at an early date.

DENTISTRY, MEDICINE, MEDICAL TECHNOLOGY, OCCUPATIONAL THERAPY, PHARMACY, PHYSICAL THERAPY, VETERINARY SCIENCE

Professor Harold M. Kaplan is the chairman of a medical advisory committee established to advise all students planning to enter medical school or dental school or to train themselves for careers in related fields.

All such students should plan their curricula very carefully. They will all need at least two years' work in chemistry, including some qualitative and some organic chemistry, and one year of biology (zoology). Since they are not expecting to receive degrees from Southern, they will not necessarily be held to all the requirements for the bachelor's degree at this University; they must, on the other hand, keep constantly in mind the requirements for admission and the later required courses in the special schools which they wish to attend. Each student should write for the catalog of the professional school he plans to enter.

LAW

Since law touches practically every human interest, a good general college background is strongly recommended. But as a rule, the pre-legal student is expected to choose a field of concentration in the social studies such as government, economics, history, sociology, psychology, or possibly philosophy.

Law schools normally require three years of pre-legal college study, and usually prefer four years of study and completion of requirements for the Bachelor of Arts degree. If the proper arrangements are made in advance, it is possible to obtain the Bachelor of Arts degree at Southern Illinois University by completing three years of pre-legal study and one year of successful work in an accredited law school. All university graduation requirements must be met, and ordinarily the student should plan to major in government. Three years of study in law school lead to the LL.B. degree. Admission requirements include adequate pre-legal grades, and sometimes the passing of a law school admission test which is offered annually over the nation.

The skills most needed in law are (1) an excellent command of the English language, both written (Department of English) and spoken (Department of Speech); (2) precision in thought (logic and other courses in philosophy, and courses in mathematics and the sciences); (3) some ability in the use of figures (a knowledge of accounting is regarded as very important); and (4) ease in understanding Latin phrases (Latin or French, in high school or college, is helpful).

The subject matter of particular value would include (1) government (national, state and local, and constitution principles); (2) history (American and English, to obtain the background for understanding legal institutions and principles); (3) economics; (4) psychology; (5) sociology; (6) anthropology; (7) philosophy, including ethics; and (8) geography.

In addition to private practice, lawyers are needed in many areas such as business, labor, government, politics, and international relations. Students with special interests should choose electives in those fields, in addition to obtaining as broad a background as possible.

PUBLIC HEALTH

The public health curriculum is a preprofessional course designed to meet the current demand for trained personnel in the public health fields. Planned specifically for those students interested in public health sanitation and public health laboratory work, the curriculum crosses departmental boundaries to give one a good basic background in the sciences and

social studies. Students with good academic records in this program should have no difficulty in securing admission to a school of public health for graduate work.

The curriculum is sufficiently broad to accommodate students who are interested in premedical or predental careers. Sufficient electives are provided so that minors can be worked out in chemistry or zoology.

THEOLOGY

Any student who plans to enter a graduate theological seminary should consult his clergyman or his major professor at the earliest possible date. He should obtain a catalog of the seminary he plans to enter and prepare himself to meet its specific entrance requirements. The American Association of Theological Schools, which is the accrediting agency accepted by most theological schools, suggests a broad, basic education with an emphasis upon ability to think, speak, and write clearly and correctly. No undergraduate major in religion is offered at Southern Illinois University but the American Association of Theological Schools believes that such undergraduate specialization is not usually desirable. Students, however, may present a minor in religion. Among suitable majors leading to the required bachelor's degree are philosophy, history, and sociology.

The American Association of Theological Schools regards the following as a minimum list of fields of study that a student should have before beginning study in a seminary. The work in these fields should be evaluated on the basis of his mastery of these fields rather than in terms of semester hours or credits. That this recommendation may help the student faced with the practical problem of selecting courses, however, it is suggested that he take approximately three-fourths of his college work in the following specific areas:¹

English. Literature, composition, speech, and related studies (English 390, Journalism 393, Radio-Television 161, Speech 102, 103)—at least six semesters.

History. Ancient, modern European, and American (History 304, 416)—at least three semesters.

Philosophy. Orientation in history, content and method (Philosophy 301, 320, 340, 360, 381, 382, 383)—at least three semesters.

Natural sciences. Preferably physics, chemistry, and biology (Physics 101, 102; Chemistry 111, 112; Botany 101; Zoology 100)—at least two semesters.

Social studies. Psychology, sociology, economics, political science, anthro-

¹ Courses offered at Southern Illinois University which should be useful in supplying this background are in parentheses.

pology, education (Psychology 301, 305, 401; Sociology 102, 241, 320, 351, 380, 484; Economics 310, 450; Government 370, 441; Educational Administration and Supervision 355)—at least six semesters including at least one semester of psychology.

Foreign languages. One or more of the following: Latin, Greek, Hebrew, German, French (Greek 101, 102, 103)—at least four semesters.

Religion. The pretheology student may well seek counsel of the seminary of his choice in order to use the resources of his college most profitably. Attention is also called to religion courses offered for credit by the off-campus foundations and to the courses in philosophy of religion, sociology of religion, and world religion offered on campus.

PUBLIC AFFAIRS RESEARCH BUREAU

First organized as a Local Government Center in 1951, the Public Affairs Research Bureau was approved as an agency of the College of Liberal Arts and Sciences by the Board of Trustees effective July 1, 1958.

The bureau concerns itself with making available certain findings of its staff to various agencies such as public schools, municipalities, business organizations, state and federal government and others in a position to apply these findings in the public interest.

STUDENT ORGANIZATIONS AND ACTIVITIES

Several academic departments have clubs or other interest groups to allow majors in special areas to become better acquainted with one another and with faculty members and to investigate further their special interests. The following departments have clubs: anthropology, botany, chemistry, English, foreign language (Spanish and German), government (International Relations Club, Young Democrats Club, Young Republicans Club), geology, history, philosophy, and psychology. The following departments have national honors societies: mathematics (Pi Mu Epsilon), government (Pi Sigma Alpha), geography (Gamma Theta Upsilon). The chemistry department has a student affiliate of the American Chemical Society.

In the college there is a Liberal Arts Honors Society, and students of the college qualifying scholastically are eligible for membership in Phi Kappa Phi.

The College of Liberal Arts and Sciences encourages a broad student

activity program with opportunities for all students to participate. The many organizations augment the student's educational experiences by assisting him in learning how to plan and carry out responsibilities, how to work with others, how to make wise use of leisure time, and how to develop leadership.

Additional information about student organizations and activities appears in the student handbook *Your Life, Southern Style*, available from the Office of Student Affairs, and in the General Information issue of the *Southern Illinois University Bulletin*.

ADMISSION TO THE COLLEGE

Candidates for admission to the College of Liberal Arts and Sciences should have included in their high school program four units of English, three to four units of mathematics including at least the equivalent of one and one-half units of algebra and one unit of geometry, two units of laboratory science, a unit of social studies other than American history, and two units of a foreign language with Latin preferred.

Inquiries concerning admission to the College of Liberal Arts and Sciences should be addressed to the University's Admissions Office. Application for admission should be initiated at least thirty days in advance of the desired entrance date. High school seniors should start the admission process during the first semester of their senior year, but their formal admission will not be considered until after receipt of the high school record showing completion of the seventh semester of high school work.

COMPLETE DETAILS concerning admission, tuition, fees, housing, financial assistance, and student employment are given in the General Information bulletin. For a free copy write to General Publications, Southern Illinois University, Carbondale, Illinois.

TUITION AND FEES

At the present time legal residents of Illinois registered for more than eight hours of credit pay a total of \$61.50 per quarter. This includes \$42.00 tuition, a \$5.00 book rental fee, a \$5.00 student union building fund fee,

and a \$9.50 student activity fee. Out-of-state students pay an additional \$50.00 tuition, or a total of \$111.50. Students registered for eight hours or fewer pay one-half tuition, one-half book rental fee, and full student union building fund fee; they have the option of paying the student activity fee.

ADVISEMENT

To insure that an undergraduate student is properly advised concerning the course of study which will fulfill the general University requirements and prepare him for his chosen career, academic advisement has been made the special responsibility of a selected group from the teaching faculty. The College of Liberal Arts and Sciences has a chief academic adviser and a number of assistant advisers.

REQUIREMENTS FOR THE BACHELOR'S DEGREE

Although the following requirements should be met by degree candidates of all colleges and divisions, it should be noted that the general degree requirements of the University have been undergoing intensive study with a view to giving the students of the University further options and providing them with more effective backgrounds not only for their professional careers but also for their standing as citizens in the communities to which they go after graduation. At such time as these new requirements can be published, all students will be notified and the transition from the old system of requirements to the new will be handled with as little inconvenience as possible to all concerned.

Each candidate for the degree must complete a minimum of 192 hours of credit in approved courses. At least 64 must be in senior college courses, of which 48 must be earned at Southern, 16 of which may be earned in extension from Southern. Each student must have a "C" average, and grades not lower than "C" in subjects aggregating at least three-fourths of the work. A "C" average is required in the major subject. These averages are required for the credit made at Southern as well as for the total record.

The *quarter hour* is the unit of credit used at Southern and throughout this bulletin. One quarter hour is two-thirds of a semester hour.

Except for Bachelor of Music Education and Bachelor of Music degree students, the following requirements should be met by all bachelor's degree candidates of the University within the first two years of attendance.

REQUIREMENTS	HOURS	COURSES
Social Studies	20	Economics 205, Geography 100, 300, Government 101, 300, History 101, 102, 103, 201, 202, Sociology 101 (work in four of the five departments). To satisfy Illinois law, a candidate must take Government 101 or 300 or History 201 or 330 or pass a test on national and state constitutional principles.
Humanities	18	
English	(9)	English 101, 102, 103
English	(6)	English 205, 206, 209, 211, 212
Art or Music	(3)	Art 120, Music 100
Biological Sciences	9	
Health Education	(4)	Health Education 100
Botany or Zoology	(5)	Botany 101, 102, 202, Zoology 100
Mathematics and Physical Sciences	12	Chemistry, physics, and mathematics (work in two of the three departments)
Practical Arts and Crafts	3	Agriculture, business administration, home economics, industrial education (not required if the student has had any such work in high school)
Physical Education	6	Activity courses
Air Science (Men only)	3	Air Science 110, 210, 220, six quarters of leadership laboratory, and three elective courses must be satisfactorily completed before this requirement is fulfilled.
TOTAL	71	

COLLEGE OF LIBERAL ARTS AND SCIENCES REQUIREMENTS

In addition to the above requirements, a candidate for a degree in the College of Liberal Arts and Sciences must have the following:

1. Four hours in philosophy or psychology.
2. A reading knowledge of a foreign language. This ordinarily requires nine hours of university study or its equivalent.
3. Competency in English as demonstrated by examination at the end of the junior year.

4. A major of at least 42 hours and a minor of at least 24 hours in an academic department of the college. Requirements of the major department must be satisfied.

In the curricula suggested in the final chapter of this bulletin, reference is made to College of Liberal Arts and Sciences requirements. The 37 hours entered for each such reference include requirements 1 and 2, above, and a 24-hour minor.

TEACHING CERTIFICATE

Students enrolled in the College of Liberal Arts and Sciences may meet the state requirements for a limited high school teaching certificate by using as their electives the following prescribed courses in the College of Education. The high school certificate is valid for four years for teaching in grades six through twelve of the common schools, renewable in periods of four years upon successful teaching and professional growth satisfactory to the county superintendent of schools.

MINIMUM PROFESSIONAL EDUCATION REQUIREMENTS FOR LIBERAL ARTS STUDENTS

Students in the College of Liberal Arts and Sciences who desire to meet only the minimum state standards for certification are to take the following program in professional education. Such students are advised to consult the 1961-63 College of Education bulletin for a statement of requirements which will become effective July 1, 1963.

1. Introductory Psychology	4
2. Educational Psychology, including human growth and development	3
3. Methods and Techniques of Teaching	3
4. History and Philosophy of Education	3
5. Guidance and/or Tests and Measurements	3
6. Student Teaching	8
7. Methods of Teaching Reading	3
8. Instructional Materials	3
9. Electives in professional education	1

The student should be familiar with the requirements for admission to student teaching. (The requirements are stated in the College of Education bulletin.) Also, he should check with his adviser as early as the beginning of the junior year to see that he has met or will meet the requirement of knowing the provisions and principles of the Constitution of the United States and of the State of Illinois.

Instructional Units

ANTHROPOLOGY

Professor Philip J. C. Dark, Ph.D. (Yale)	1960
Professor John Charles Kelley, Ph.D. (Harvard)	1950
Professor Walter W. Taylor, Ph.D. (Harvard), Chairman	1958
Associate Professor Pedro Armillas, Dip. (Barcelona)	1960
Associate Professor Charles Henry Lange, Ph.D. (New Mexico)	1955
Associate Professor Carroll L. Riley, Ph.D. (New Mexico)	1955
Assistant Professor Melvin Leo Fowler, Ph.D. (Chicago)	1959
Assistant Professor George W. Grace, Ph.D. (Columbia)	1960
<hr/>	
Visiting Lecturer Laura Thompson, Ph.D. (California)	1961

The areas of specialization are those of archaeology, ethnology, social anthropology, and linguistics. Faculty members of the department have had personal field experience in North, South, and Central America, Europe, Africa, and Oceania. In northern Mexico the department has more specialists and more field experience than any other anthropological organization. Studies of Southern Illinois, which is rich in anthropological and archaeological materials, are carried on continuously.

REQUIREMENTS FOR A MAJOR IN ANTHROPOLOGY

Formal declaration of a major in anthropology should not be made before the end of the sophomore year. Prospective majors are urged to complete their general studies program as soon as possible in order to concentrate on anthropological studies during the junior and senior years. All course requirements for a major in anthropology can be fulfilled during the last two years of undergraduate study. The 300-level courses should be taken during the junior year, 400-level courses during the senior year.

Majors are expected to familiarize themselves with the contents of certain basic anthropological publications, whether these fall within the required courses or not. A list of these publications will be provided, and the student is expected to work out a reading program under the supervision of his adviser.

SUGGESTED CURRICULUM IN ANTHROPOLOGY

The following curriculum leads to the Bachelor of Arts degree with a major in anthropology in the College of Liberal Arts and Sciences.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)....	37
<i>Requirements in the Department of Anthropology</i>	48
Anthropology 300, 303, 304, 307, 308, 309, 400, 401, 404, 405, 408, 409	
<i>Related Requirements for the Major</i>	24
A minimum of 4 hours is required in each of the following: geography, geology, philosophy, psychology, sociology, zoology.	
<i>Duplication of Requirements</i>	-19
Courses taken to satisfy the Related Requirements may be se- lected in such a way that they also satisfy other requirements. If courses are so selected, then up to 19 hours may be deducted here to avoid counting them twice in the total.	
<i>Electives</i>	31
<i>Total</i>	192

A minor in anthropology consists of Anthropology 300, 400, 409, and 12 hours in any other courses. The student is advised to consult the department before selecting his electives.

COURSE DESCRIPTIONS

- 110-4. THE WAYS OF MANKIND. A survey of human origins and of human customs throughout the world, from earliest times to the present day. Development of Man as a biological and a cultural being. Relationships and comparisons of Western and non-Western cultures. For freshmen and sophomores only.
- 300-4. MAN'S PLACE IN NATURE. Man as a biological being, his relationships to other living things. Human origins and development. Concept of race and the races of mankind. Human genetics and normal human variation.
- 303-4. PREHISTORY OF THE OLD WORLD. A survey of man's earliest

cultural beginnings. Paleolithic and Neolithic periods in Europe, Africa, the Near East, and Asia.

- 304-4. THE ORIGINS OF CIVILIZATION. A study of the complex environmental and cultural factors that led to the rise and fall of early high-cultures in both Old and New Worlds.
- 307-4. PEOPLES AND CULTURES OF THE NEW WORLD. The biological and cultural history of the American Indian and the Eskimo from the earliest known times to the present day.
- 308-4. PEOPLES AND CULTURES OF EUROPE AND AFRICA. The biological and cultural history of Man in Europe and Africa during the proto-historic and historic periods.
- 309-4. PEOPLES AND CULTURES OF ASIA AND OCEANIA. The biological and cultural history of man in Asia and Oceania during the proto-historic and historic periods.
- 400-4. MAN AND CULTURE. The nature of culture and cultural process. Relationships of culture and man as an individual and as a group. Emphasis on "the anthropological point of view."
- 401-4. LANGUAGE IN CULTURE. Language as a part of culture. Linguistics and the study of culture.
- 404-4. PRIMITIVE ART AND TECHNOLOGY. The development of man as a tool-using and art-loving being. Artistic and technological traditions of non-Western peoples, past and present.
- 405-4. SOCIAL ANTHROPOLOGY. A comparative approach to the organizational features of human groups. Functional aspects and distributions of kinship, political, religious, and economic systems.
- 408-4. HISTORY OF ANTHROPOLOGICAL THOUGHT. The growth of Anthropology to about 1850, followed by a more intensive survey of the concepts and ideas of anthropology during the past hundred years.
- 409-4. ANTHROPOLOGY AND MODERN LIFE. The applications of anthropological principles to the solution of problems of the modern world. Contributions of anthropology to the work of the educator, social worker, administrator, business man, government official, and other specialists dealing with man in Western and non-Western cultures.
- 413-3. INTRODUCTION TO GENERAL LINGUISTICS. The theory and method of linguistics. Analysis and classification of languages.
- 414-3. GENERAL PHONETICS AND PHONEMICS. The theory and practice of linguistic recording and the analysis of sound systems.
- 415-3. GENERAL GRAMMATICAL ANALYSIS. The theory and method of analyzing grammatical systems.
- 420-3. INDIANS OF NORTH AMERICA. A survey of proto-historic and historic Indian and Eskimo cultures north of Mexico.
- 421-3. INDIANS OF MESO-AMERICA. A survey of the native peoples of Mexico and Central America, their history and their contributions to modern mestizo culture.
- 422-3. INDIANS OF SOUTH AMERICA. A survey of the native peoples of South America and the West Indies, their history and their contributions to the life of modern nations.
- 430-3. ARCHAEOLOGY OF NORTH AMERICA. A survey of prehistoric Indian and Eskimo cultures north of Mexico.

- 431-3. **ARCHAEOLOGY OF MESO-AMERICA.** A survey of prehistoric Indian cultures of Mexico and Central America.
- 432-3. **ARCHAEOLOGY OF SOUTH AMERICA.** A survey of prehistoric Indian cultures of South America.
- 462-3. **SOCIAL ORGANIZATION.** Deals specifically with those aspects of social organization which are based on kin and status relationships.
- 465-3. **RELIGIONS OF THE WORLD.** The origins of religion and a survey of religions past and present. Emphasis on the beliefs of non-Western peoples.
- 470-3. **CULTURAL BACKGROUND OF ART.** The role of culture in artistic expression. Art as a system in culture. The artist's role in society. Aesthetic aspects and appreciation of non-Western art.
- 475-3. **CULTURAL BACKGROUND OF EDUCATION.** How societies pass on their cultural patterns. Comparative study of educational processes over the world. Our own methods and goals in helping non-Western peoples adapt themselves to Western culture.
- 480-3. **CULTURE-HISTORY OF SOUTHERN ILLINOIS.** A survey of the human occupation of southern Illinois from earliest Indian times to modern communities and ethnic groups.
- 481-3 to 6. **SEMINAR IN ANTHROPOLOGY.** The topic and instructor will vary. Students should consult the department before enrolling.
- 483-3 to 6. **RESEARCH IN ANTHROPOLOGY.** Guided research upon anthropological problems. Students should consult the department before enrolling.
- 485-3 to 6. **READING IN ANTHROPOLOGY.** Guided reading designed to cover special topics and to fill gaps in the student's basic anthropological background. Prerequisites: previous course work in anthropology and consent of department.
- 490-3. **THEORY AND METHOD IN ARCHAEOLOGY.** The conceptual schemes of archaeological research and the methods which implement them in practice.
- 491-5. **ARCHAEOLOGICAL FIELD METHODS.** The theory, methods, and techniques of field research in archaeology. Training and practice is offered in surveying, photography, field recording, and other basic skills required by the archaeologist.
- 495-3. **FIELD AND RESEARCH METHODS IN ETHNOLOGY.** Methods used in the field and in the analysis and presentation of research on living peoples. Organization, field situations, and documentary research will be stressed.
- 497-3 to 9. **FIELDWORK IN ANTHROPOLOGY.** Students should consult the department before enrolling.

Courses on the 500 level are for graduate students only.

- 500-3. **PRO-SEMINAR.** Anthropology as an academic and research discipline. A survey of the personnel and source materials of the profession, Professional standards, ethics, values, aims.
- 513-3. **HISTORICAL LINGUISTICS.** An introduction to the study of the processes of language change and linguistic techniques of reconstruction.
- 520-3. **ETHNOLOGY OF THE GREATER SOUTHWEST.** Problems pertaining to the cultures of arid America.

- 525-3. MESO-AMERICAN CHRONICLES. Comparative study of the pre-Spanish writings of the Indians of Meso-America.
- 526-3. COLONIALISM AND NATIVE CULTURES IN LATIN AMERICA. The impact of European conquest and dominance upon the native peoples and cultures in Latin America.
- 527-3. NEGRO CULTURES OF THE CARIBBEAN. Their origins and development and their relationships with the other cultures, Indian and European, of the Caribbean area.
- 529-3 to 9. ETHNOLOGICAL CULTURES OF THE NEW WORLD. Intensive study of selected areas and cultures. Students should consult the department before enrolling.
- 530-3. ARCHAEOLOGY OF THE EASTERN UNITED STATES. The prehistoric cultures east of the Rocky Mountains.
- 531-3. ARCHAEOLOGY OF THE GREATER SOUTHWEST. The prehistoric cultures of arid America.
- 533-3. MEXICAN ARCHAEOLOGY. The non-Maya cultures of prehistoric Mexico.
- 534-3. MAYA ARCHAEOLOGY. Prehistoric Maya cultures of southern Mexico and Central America.
- 539-3 to 9. ARCHAEOLOGICAL CULTURES OF THE NEW WORLD. Intensive study of selected areas and cultures. Students should consult the department before enrolling.
- 540-3. ETHNOLOGY OF EUROPE. Problems pertaining to the traditional and contemporary cultures of Europe. Population movements and the spread of ideas as background for the modern ethnic situation.
- 541-3. ETHNOLOGY OF RUSSIAN ASIA. Problems pertaining to the cultures of northern Asia.
- 543-3. ETHNOLOGY OF AFRICA. Problems pertaining to the cultures of Africa, with emphasis on negro Africa.
- 546-3. ETHNOLOGY OF SOUTHERN ASIA. Problems pertaining to the cultures of India, southeast Asia, and Indonesia.
- 547-3. ETHNOLOGY OF OCEANIA. Problems pertaining to the cultures of Australia and the Pacific Islands: Melanesia, Micronesia, and Polynesia.
- 549-3 to 9. ETHNOLOGICAL CULTURES OF THE OLD WORLD. Intensive study of selected areas and cultures. Students should consult the department before enrolling.
- 559-3 to 9. ARCHAEOLOGICAL CULTURES OF THE OLD WORLD. Intensive study of selected areas and cultures. Students should consult the department before enrolling.
- 562-3. PEASANT CULTURES. The theory of "peasant society" and comparative analysis of particular communities so classified.
- 565-3. BUILDING OF CULTURES. The factors involved in the growth, change, and breakdown of cultural patterns. Theories of innovation and culture change.
- 570-3. TECHNOLOGY IN CULTURE. Intensive study of the locus and function of technologies in culture as exemplified in selected areas in Oceania, Africa, North America, and elsewhere.
- 575-3. CULTURAL THEMES AND VALUES. Comparative study of systems of beliefs, interests, goals which influence and guide the individual's participation in his own and other cultures.

- 580-3. CULTURE-HISTORY AND CULTURE-ECOLOGY OF NORTHERN MEXICO. A joint faculty-student seminar designed to attack problems arising from Departmental field-work in central and northern Mexico and the American Southwest.
- 581-3 to 9. GRADUATE SEMINAR IN ANTHROPOLOGY. Students should consult the department before enrolling.
- 582-3 to 9. ADVANCED PROBLEMS IN ARCHAEOLOGY. Guided research upon archaeological problems. Students should consult the department before enrolling.
- 584-3 to 9. ADVANCED PROBLEMS IN CULTURAL ANTHROPOLOGY. Guided research upon problems of ethnology, social anthropology, and linguistics. Students should consult the department before enrolling.
- 585-3 to 9. ADVANCED READING IN ANTHROPOLOGY. Guided reading designed to cover special topics and to fill gaps in the student's specialized anthropological background.
- 597-3 to 9. GRADUATE FIELDWORK IN ANTHROPOLOGY. Students should consult the department before enrolling.
- 599-3 to 9. THESIS.
- 600-3 to 48. DISSERTATION.

ASIAN STUDIES

Within the College of Liberal Arts and Sciences, a student may minor in Asian Studies. To qualify for this minor, a student must present a minimum of thirty hours; the thirty hours are to be chosen from at least three departments from a list of offerings approved by the Committee on Asian Studies. These approved courses cover areas of instruction in anthropology, art, economics, geography, government, history, and philosophy.

In the future, the minor in Asian Studies may be expanded to include work in the languages of the Far East, South and/or Southeast Asia.

A leaflet describing the program is available from Professor Ping-chia Kuo, Chairman, Committee on Asian Studies, Southern Illinois University, Carbondale, Illinois.

BIOLOGICAL SCIENCES

The following curriculum leads to the Bachelor of Arts degree. The curriculum is designed to give the student a broad training in the biological sciences and to prepare him for teaching biology in the high school. Courses in allied fields of science are included to provide a background for complete understanding of the biological sciences.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)	37

BIOLOGICAL SCIENCES	19
<i>Requirements in Biological Sciences</i>	70
Botany 101, 202, 203, 470	19
Microbiology	5
Physiology	5
Zoology 101, 102, 103	15
Electives in botany and zoology to complete at least 40 hours in one department and at least 20 hours in the other	26
<i>Related Requirements for the Major</i>	36
Astronomy	4
Chemistry (3 courses)	12
Geology	4
Mathematics (2 courses)	8
Physics	8
<i>Duplication of Requirements</i>	-37
Courses required for the major also satisfy 20 hours of College of Liberal Arts and Sciences Requirements and 17 hours of Gen- eral Degree Requirements. These hours are deducted here to avoid counting them twice in the total.	
<i>Electives</i>	15
<i>Total</i>	192

A student may undertake this program in the College of Education in which case he must satisfy all requirements of that college for the Bachelor of Science in Education degree. The requirements for the major are the same in both colleges.

During his freshman year, any student following this program (in either college) should consult the chairman of the Department of Botany or of the Department of Zoology. A detailed curriculum is available in the departmental office.

BOTANY

Professor Ladislao v. Olah, Ph.D. (Stephen Tisza, Hungary)	1959
Professor John W. Voigt, Ph.D. (Nebraska)	1950
Professor Walter B. Welch, Ph.D. (Chicago), Chairman	1938
Associate Professor William C. Ashby, Ph.D. (Chicago)	1960
Associate Professor Margaret Kaeiser, Ph.D. (Illinois)	1947
Associate Professor Ralph W. Kelting, Ph.D. (Oklahoma)	1961
Assistant Professor Howard G. Applegate, Ph.D. (Michigan State)	1960
Assistant Professor Donald A. Eggert, Ph.D. (Yale)	1961
Assistant Professor William M. Marberry, A.M. (Illinois)	1939

Assistant Professor Robert H. Mohlenbrock, Ph.D.

(Washington University)

1957

Assistant Professor Aristotel J. Pappelis, Ph.D. (Iowa State)

1961

Visiting Professor Frits W. Went, Ph.D. (University of

Utrecht, Netherlands)

1959-60

Lecturer LaDoris Harms Hoppesch, M.S. (Southern Illinois)

1960-62

SUGGESTED CURRICULUM IN BOTANY

The following curriculum leads to the Bachelor of Arts degree with a major in botany in the College of Liberal Arts and Sciences. Prospective majors are urged to consult with a departmental counselor.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)....	37
<i>Requirements in the Department of Botany</i>	42
Botany 101, 202, 203, 310, 315, 320	29
Botany electives to complete 42 hours	13
<i>Recommended Courses Related to the Major</i>	34-35
Chemistry 110, 230, 240, 350	16
Mathematics 106 or 111, 210	8-9
Microbiology 100 or 301	5
Zoology 100	5
<i>Duplication of Requirements</i>	-17
The courses listed above also satisfy 17 hours of general-degree and college requirements. These hours are deducted here to avoid counting them twice in the total.	
<i>Electives</i>	24-25
<i>Total</i>	192

A minor in botany consists of a minimum of five courses including 101, 202, and 203.

COURSE DESCRIPTIONS

- 101-5. GENERAL BOTANY. An introductory study of the morphology, anatomy, and physiology of the seed plants including vegetative and sexual reproduction; identification and recognition of common trees by leaf and stem characteristics. Laboratory and field studies.
- 131-5. FIELD BIOLOGY. A course for those who are planning to teach in the elementary schools; methods for the identification of various types of plants and animals; location of source material suitable for teaching nature study. Laboratory and field work costs about \$5.

- 202-5. GENERAL BOTANY. A study of representative plants of the great plant groups; classification; evolution of the plant kingdom. Laboratory, and one all-day field trip may be required. Student cost about \$5. Prerequisite: 101.
- 203-5. TAXONOMY OF LOCAL SEED PLANTS. A study of the characteristics of plants at the family, generic, and specific levels, with special reference to prominent families of flowering plants in southern Illinois. Also included will be collecting techniques and instruction in the use of botanical keys. Some all-day field trips required. Student cost about \$5. Prerequisite: 101.
- 308-5. TAXONOMY OF CULTIVATED PLANTS. A study of the classification of woody and herbaceous cultivated plants, both exotic and native. Three all-day field trips cost about \$6. Prerequisites: 101, 203.
- 310-5. PLANT ANATOMY. An introduction to cell division, development, and maturation of the structures of the vascular plants. Laboratory. Prerequisites: 101, 202.
- 311-5. GENERAL BACTERIOLOGY. (Same as Microbiology 301.) Primarily a course for advanced students in other biological and physical sciences. An advanced treatment of cytology, theories and techniques of staining, physiology, enrichment cultures, and classification of microorganisms and their agricultural, industrial, and medical relationships. Not open to students who have had Microbiology 100 or 201. 3 hours lecture. 4 hours laboratory. Prerequisite: one course in botany or zoology and organic chemistry.
- 315-4. PLANT GENETICS. A general course involving principles of evolution and genetics of plants. Prerequisite: minor in agriculture, botany, or zoology.
- 320-5. ELEMENTS OF PLANT PHYSIOLOGY. A study of the functions of plants and their relation to the various organs. Laboratory. Prerequisite: 101. Desirable antecedent: organic chemistry.
- 321-3. ELEMENTARY BOTANICAL MICROTECHNIQUE. Methods in preservation and preparation of plant materials, both non-vascular and vascular. Prerequisite: one year of botany.
- 340-5. PLANT ECOLOGY. A general course, consisting of studies on the ecology of individual plants and plant communities. Some all-day field trips required. Cost to student about \$5. Prerequisites: 101, 202, 203.
- 355-5. PLANT PATHOLOGY. (Same as Microbiology 355 and Plant Industries 355.) A study of plant diseases caused by fungi, bacteria, and viruses. Special attention given diseases of southern Illinois plants. Laboratory and field trips. Prerequisite: 101, 202, 301, or consent of instructor.
- 390-2 to 4. READINGS IN BOTANY. A course of individually assigned readings in classical botanical literature; both oral and written reports required; open only to undergraduate students. Prerequisite: a major or minor in botany and consent of instructor.
- 391-2 to 5. SPECIAL PROBLEMS IN BOTANY. Individual laboratory or field work under supervised direction. Both written and oral discussions required; open only to undergraduate students. Prerequisite: major or minor in botany and consent of department.
- 404-5. THE ALGAE. Structure, development, and relationships of the algae. Laboratory and some field work. Prerequisites: 101, 202.

- 405-5. MYCOLOGY. Structure, development, and relationships of fungi. Problems of economic and scientific interest stressed. Laboratory. Prerequisites: 101, 202.
- 411-5. THE BRYOPHYTES AND PTERIDOPHYTES. Structure, development, and relationships of the liverworts and mosses, and the ferns and fern allies. Laboratory. Prerequisites: 101, 202.
- 412-5. THE SPERMATOPHYTES. Structure, development, and relationships of the gymnosperms and angiosperms. Laboratory. Prerequisites: 202, 203.
- 425-5. ADVANCED PLANT PHYSIOLOGY I. Water relations, mineral nutrients, and colloidal phenomena in plants. Laboratory. Prerequisites: 101, 320. Desirable antecedents: year of chemistry, some physics.
- 426A-3. BIOCHEMISTRY AND PHYSIOLOGY OF MICROORGANISMS. (Same as Microbiology 425.) 3 hours lecture. Prerequisites: Microbiology 201 and organic chemistry.
- 426B-2. BIOCHEMISTRY AND PHYSIOLOGY OF MICROORGANISMS. (Same as Microbiology 426.) 4 hours laboratory.
- 427-4. MINERAL NUTRITION OF PLANTS. (Same as Plant Industries 427.) Covers the absorption, translocation, function, and interaction of inorganic nutritive elements in green plants with application to forest, agronomic, and horticultural species. Prerequisite: 320.
- 428-3. PLANT NUTRITION. The role and function of organic compounds in plants. The physiological importance of carbon-, nitrogen-, and phosphorus-containing compounds are stressed. Prerequisites: organic chemistry, minor in botany or agriculture.
- 430-5. ADVANCED PLANT PHYSIOLOGY II. Photosynthesis, plant pigments, plant foods, enzymes, respiration, growth, and movement. Laboratory. Prerequisites: 101, 320. Desirable antecedents: year of chemistry, some physics.
- 440-4. ECOLOGY OF GRASSES AND GRASSLANDS. Structure, analysis, and dynamics of grassland communities; structure and growth of individual species. Field and laboratory work costs about \$5. Prerequisite: 340 or consent of instructor.
- 451-5. INTRODUCTION TO FLORISTICS. Principles involved and methods used in the analysis of the flora of an area; introduction to literature of taxonomic Botany. Field trips cost about \$5. Prerequisite: 203 or consent of instructor.
- 455-4. MEDICAL MYCOLOGY. Fungi which are responsible for infection of man and animals. Problems of classification, identification, isolation, and activity of these fungi. Prerequisites: 405, Microbiology 100 or consent of instructor.
- 457-4. FOREST PATHOLOGY. Nature and control of forest and shade tree diseases. A study of tree diseases in forests, parks, streets, and nurseries. Fungi important in decay and stain of timber and its products will be included. Prerequisite: Botany 355 or consent of instructor.
- 470-4. METHODS OF TEACHING HIGH SCHOOL BIOLOGY. A study of methods, consisting of consideration of objectives, different types of courses, teaching the scientific method, laboratory method, project method, field methods, measurements, evaluation, and other problems in the teaching of the biological sciences. Prerequisite: Minor in botany or zoology or consent of instructor.

- 480-4. CLASSIC PRINCIPLES OF BOTANY. Theories, principles, and developments in the various divisions of the plant sciences. Prerequisites: 101, 131, or 350, or consent of instructor.

Courses on the 500 level are for graduate students only.

- 501-4. PLANT BIOLOGY FOR HIGH SCHOOL TEACHERS. Field work is required. The principles of plant biology are illustrated in the field. Emphasis is placed on the relation of the plant to the environment. Two lectures and two laboratories per week. Open to all graduate students. Prerequisite: one year of biological science.
- 502-2. RECENT DEVELOPMENTS IN BIOLOGICAL SCIENCES. (Same as Zoology 502.) A series of lectures based upon recent research, designed to acquaint the teacher with advances and changes in concepts. Prerequisite: one year of biological science.
- 503-5. ANGIOSPERM TAXONOMY I. Discussion of classical systems of classification; systematic treatment of all families of Monocotyledoneae. Prerequisite: 203.
- 504-5. ANGIOSPERM TAXONOMY II. Discussion of classical systems of classification; systematic treatment of all families of Dicotyledoneae. Prerequisite: 203.
- 505-3. ADVANCED TAXONOMY FOR HIGH SCHOOL TEACHERS. Designed to aid those persons now teaching high school who have had some previous work in taxonomy. Course adapted to meet the needs of the students. 4 hours of field work on alternate Saturdays. Prerequisite: 203, or equivalent.
- 520-5. PHYSIOLOGY OF THE FUNGI. Environmental and nutritional factors involved in the growth, reproduction, and metabolism of the fungi. Prerequisite: consent of instructor.
522. ADVANCED HISTOLOGICAL TECHNIQUE. Preparation and presentation of research materials. Laboratory work only. Prerequisite: consent of department. Credit on work completed.
- 525-5. CYTOLOGY. Microscopical study of protoplasm, including cellular and nuclear divisions, discussion of submicroscopical structure and of cellular metabolism. Prerequisite: consent of instructor.
- 526-5. CYTOGENETICS. The study of the structure and mechanism of the cell and of the chromosomes related to heredity. Prerequisites: 315 and consent of instructor.
- 533-3 to 4. GROWTH AND DEVELOPMENT IN PLANTS. External and internal factors as they affect development and growth of plants, photoperiodism, and the role of growth-promoting substances. 1 hour to be arranged. Prerequisite: 320 or consent of instructor.
- 540-5. ECOLOGY OF FORESTS AND ARABLE LANDS. Forest areas in North America. Developmental and structural analysis of forest types. Species characteristics. Environmental factors influencing plant growth on forest and on arable lands. Saturday field trips may be required. Approximate cost \$5. Prerequisite: 340 or equivalent.
- 542-3. GENECOLOGY AND COMMUNITY CONCEPTS. Implications of findings on the nature of plant adaptation to environment. Genetics and physiological ecology viewpoints. Considered at the species and community levels. Prerequisites: 203, 315, 320, 340, or consent of instructor.

- 543-5. EXPERIMENTAL ECOLOGY. Experiments on plant response to environmental factors. Design of experiments. Statistical methods. Presentation of individual research findings. Laboratory. Prerequisite: 320, 340, or consent of instructor.
- 551-4. THE NATURAL VEGETATION OF THE CENTRAL MISSISSIPPI BASIN—UPLAND. Floristic studies of the vegetation which occurs in the central basin of the Mississippi River. Emphasis on upland plants. Field trips cost about \$5. Prerequisite: 203.
- 552-4. THE NATURAL VEGETATION OF THE CENTRAL MISSISSIPPI BASIN—AQUATIC. Floristic studies of the vegetation which occurs in the central basin of the Mississippi River. Emphasis on aquatic plants. Field trips cost about \$5. Prerequisite: 203.
- 555-4. ADVANCED PLANT PATHOLOGY I. Diseases of field crops, horticultural crops, and trees incited by Ascomycetes and Basidiomycetes. Prerequisite: 355 or consent of instructor.
- 556-4. ADVANCED PLANT PATHOLOGY II. Diseases of field crops, horticultural crops, and trees incited by Ascomycetes and Basidiomycetes. Prerequisite: 355 or consent of instructor.
- 557-4. ADVANCED PLANT PATHOLOGY III. Diseases of field crops, horticultural crops, and trees incited by bacteria and viruses. Prerequisite: 355 or consent of instructor.
- 570-2 to 5. READINGS.
- 580-1 to 4. SEMINAR. To be taken by all graduate students. Course will be modified to meet the needs of the students enrolled.
- 590-2 to 4. INTRODUCTION TO RESEARCH. Methods of presentation of research materials, including written reports, graphs, photographs, bibliographies.
- 591-3 to 9. RESEARCH. Assignments involving research and individual problems. Prerequisite: consent of department. Students to register for not fewer than 3 hours per quarter.
- 599-3 to 9. THESIS. Work involved in the research for and presentation of a thesis. Not more than 9 hours nor fewer than 5 hours will be allowed on thesis work. Student advised to take no more than 3 hours per quarter. Total hours in 591 and 599 cannot exceed 15 hours to be applied toward the master's degree.
- 600-3 to 48. DISSERTATION.

CHEMISTRY

Professor Talbert Ward Abbott, Ph.D. (Illinois), Emeritus (1961)	1928
Professor Roger E. Beyler, Ph.D. (Illinois)	1959
Professor Elbert H. Hadley, Ph.D. (Duke)	1947
Professor J. W. Neckers, Ph.D. (Illinois), Chairman	1927
Professor Robert A. Scott, Ph.D. (Illinois), Emeritus	1923
Professor Kenneth Van Lente, Ph.D. (Michigan)	1931
Associate Professor Boris Musulin, Ph.D. (Northwestern)	1956

Associate Professor Robert E. Van Atta, Ph.D. (Pennsylvania State)	1954
Assistant Professor James N. BeMiller, Ph.D. (Purdue)	1961
Assistant Professor Wilbur N. Moulton, Ph.D. (Minnesota)	1956
Assistant Professor Douglas E. Sellers, Ph.D. (Kansas State)	1958
Assistant Professor Russell F. Trimble, Jr., Ph.D. (Massachusetts Institute of Technology)	1954
<hr/>	
Lecturer Dwight N. Garrison, M.S. (Michigan)	1959-62
Lecturer James P. Scannell, Ph.D. (California)	1960-61

The following minimum requirements for chemistry majors will be initiated with the class of 1961 and subsequent classes, and wherever possible for preceding classes.

A student majoring in chemistry must have a 3.0 average in chemistry courses to start the second year of the major. He must have a 3.5 average in chemistry courses, and/or consent of the department, to start his third and fourth years of work toward the major.

SUGGESTED CURRICULA IN CHEMISTRY

The following curriculum leads to the Bachelor of Arts degree with a major in Chemistry in the College of Liberal Arts and Sciences and meets the requirements of the American Chemical Society. A student desiring to follow this curriculum should consult the Department of Chemistry for a recommended curriculum outline covering in detail his four years of study.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)	37
<i>Requirements in the Department of Chemistry</i>	67-71
Chemistry 111, 112, 113, 221, 235 or 331, 341, 342, 343, 375, 461, 462, 463, 411, 432, 433, 446, 490	64-67
Chemistry 412, 447, 451, 452, 471 (any one)	3-4
<i>Related Requirements for the Major</i>	39
Mathematics 111, 112, 113, 251, 252, 253	27
Physics (one year)	12
<i>Duplication of Requirements</i>	-36
The courses listed above also satisfy 36 hours of general-degree and college requirements. These hours are deducted here to avoid counting them twice in the total.	
<i>Electives</i>	14-18
<i>Total</i>	192

The following curriculum leads to the Bachelor of Arts degree with a major in chemistry in the College of Liberal Arts and Sciences.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.) ..	37
<i>Requirements in the Department of Chemistry</i>	48
Chemistry 111, 112, 113, 221, 375, 432, 490	24
Chemistry 305, 306; or 341, 342, 343	8 or 14
Chemistry 235 or 331, 460; or 461, 462, 463	8-12
Chemistry electives selected from 350, 411, 412, 433, 446, 447, 451-452, 471 to bring total hours in chemistry to at least 48	1-8
<i>Related Requirements for the Major</i> (See ACS Curriculum, above.)	39
<i>Duplication of Requirements</i> (See ACS Curriculum, above.)	-36
<i>Electives</i>	33
<i>Total</i>	192

A minimum of twenty-four hours of chemistry is required for a minor including 111, 112, and at least one course from each of two of the following fields: analytical chemistry, biological chemistry, organic chemistry. Some chemistry course sequences constituting acceptable minors are: 111, 112, 113 plus one of the following sequences: 235 and 240; or 221, 305, 306; or 221, 240, 350; or 230, 240, 350; or 305, 306, 350; or 235, 305, 306; or 235, 305, 306, 350. Another acceptable sequence is 111, 112, 230, 305, 306, 350.

COURSE DESCRIPTIONS

Chemistry service courses for non-chemistry majors are listed immediately after the 500-level courses.

- 111-5, 112-5. **CHEMICAL PRINCIPLES AND INORGANIC CHEMISTRY.** Required for engineering students and all students requiring more than one year of chemistry. 3 lecture, 1 quiz, and 4 laboratory hours per week. High school chemistry is not a prerequisite.
- 113-5. **INORGANIC AND QUALITATIVE ANALYSIS.** 2 lecture, 1 quiz, and 6 laboratory hours per week. Prerequisite: 112.
- 221-3. **QUALITATIVE ANALYSIS.** 2 lecture and 3 laboratory hours per week. Prerequisite: 113 and knowledge of logarithms.
- 235-5. **GENERAL QUANTITATIVE ANALYSIS.** A course particularly for pre-professional students. 3 lecture and 6 laboratory hours per week. Prerequisite: 113 and knowledge of logarithms.
- 305-4. **ORGANIC CHEMISTRY.** A course for chemistry minors and pre-professional students. 3 lecture and 3 laboratory hours per week. Prerequisite: 112.

- 306-4. ORGANIC CHEMISTRY. 2 lecture and 6 laboratory hours per week. Prerequisite: 305.
- 331-3. INTRODUCTORY QUANTITATIVE ANALYSIS. 2 lecture and 3 laboratory hours per week. Prerequisite: 221.
- 341-4. ORGANIC CHEMISTRY. 3 lecture and 3 laboratory hours per week. Prerequisite: 113.
- 342-5, 343-5. ORGANIC CHEMISTRY. 3 lecture and 6 laboratory hours per week. Prerequisite: 341.
- 375-0 to 2. SENIOR SEMINAR. Required of seniors majoring in chemistry.
- 401-3 to 5. GENERAL AND INORGANIC CHEMISTRY—REFRESHER. Prerequisite: one year of college chemistry or equivalent. Not to be counted toward chemistry major or minor.
- 403-3 to 5. ANALYTICAL CHEMISTRY-REFRESHER. A condensed introduction to or review of analytical chemistry. Aspects of both qualitative and quantitative analysis will be included. 3 lectures and 2 optional laboratory periods per week. Prerequisite: 1 year of college chemistry.
- 404-3 to 5. ORGANIC CHEMISTRY—REFRESHER. Prerequisite: one year of college chemistry or equivalent. Not to be counted toward chemistry major or minor.
- 408-4. MODERN CHEMISTRY. A review of chemical principles, including chemical bonds and equilibrium, and some organic compounds. Prerequisite: 1 year of chemistry. Not open to majors or minors in chemistry.
- 409-5. MODERN CHEMISTRY. A continuation of 408. Includes chemical bonding and reactions, with some descriptive inorganic chemistry. Prerequisite: 1 year of chemistry. Not open to majors or minors in chemistry.
- 411-3. INTERMEDIATE INORGANIC CHEMISTRY. Modern inorganic chemistry involving atomic structure, chemical bonds, complexes, and chelate structures; chemistry of familiar and less familiar elements. 3 lecture hours per week. Prerequisites: 235 or 331, 306 or 343.
- 412-3. INORGANIC PREPARATIONS. A study of several important types of inorganic syntheses. 1 lecture and 6 laboratory hours per week. Prerequisite: 411.
- 432-4. INSTRUMENTAL ANALYTICAL TECHNIQUES. Theory and practice of common instrumental analytical measurements. 2 lecture and 6 laboratory hours per week. Prerequisites: 235 or 331, 306 or 343, and one year of physics.
- 433-4. INTERMEDIATE QUANTITATIVE ANALYSIS. A comprehensive study of complex methods of analysis, with emphasis on separations. 2 lecture and 6 laboratory hours per week. Prerequisite: 460 or 462.
- 444-3. ORGANIC REACTIONS. An intermediate course with emphasis on monofunctional compounds. 3 lecture hours per week. Prerequisite 343.
- 446-4. QUALITATIVE ORGANIC CHEMISTRY. A systematic study of the separation and identification of organic compounds by a procedure based on solubility and classification reagents. 2 lecture and 6 laboratory hours per week. Prerequisite: 306 or 343.
- 447-3. QUANTITATIVE ORGANIC CHEMISTRY. The determination of functional groups and elements commonly found in organic compounds by selected methods of analysis; illustration of general method of procedure in the field of quantitative organic chemistry. 1 lecture and 6 laboratory hours per week. Prerequisite: 306 or 343, 235 or 331.

- 451-4. BIOCHEMISTRY. Carbohydrates, fats and related substances, proteins and amino acids, enzymes, digestion, absorption, and detoxication. 3 lecture and 3 laboratory hours per week. Prerequisites: 306 or 343, 235 or 331.
- 452-4. BIOCHEMISTRY. The blood and lymph; acid-base regulation; metabolism of carbohydrates, lipids, and proteins; urine; calorimetry and energy metabolism; nutrition and vitamins; and hormones. Analysis of blood and urine. 3 lecture and 3 laboratory hours per week. Prerequisite: 451.
- 460-5. THEORETICAL CHEMISTRY. A one-quarter course on the traditional aspects of physical chemistry without the requirement of calculus. 4 lecture and 3 laboratory hours per week. Prerequisites: 235 or 331, 306 or 343, and one year of physics or consent of instructor.
- 461-4. PHYSICAL CHEMISTRY. Gases, liquids, solids, solutions, homogeneous and heterogeneous equilibria. 3 lecture and 3 laboratory hours per week. Prerequisites: 331 (may be taken concurrently), 343, twelve hours of physics, and one year of calculus.
- 462-4. PHYSICAL CHEMISTRY. A continuation of 461, including chemical kinetics, electrical conductance, electromotive force, and electrolytic equilibrium. 3 lecture and 3 laboratory hours per week. Prerequisite: 461.
- 463-4. PHYSICAL CHEMISTRY. A continuation of 462, including chemical thermodynamics, the quantum theory, nuclear structure, photochemistry, atomic and molecular structure. 3 lecture and 3 laboratory hours per week. Prerequisite: 462.
- 471-3. INDUSTRIAL CHEMISTRY. A survey course on modern industrial chemistry and an introduction to chemical research processes. 3 lecture hours per week. Prerequisite: 306 or 343.
- 476-3. SPECIAL METHODS IN TEACHING CHEMISTRY. A course to help the teacher improve his presentation of chemistry, particularly the use of the year-long filmed chemistry series. Prerequisite: 1 year of public school chemistry teaching.
- 490-2. CHEMICAL LITERATURE. A description of the various sources of chemical information and the techniques for carrying out literature searches as well as an introduction to nomenclature. 2 lecture hours per week. Prerequisites: 235 or 331, 306 or 343, reading knowledge of German or consent of instructor.
- 496-2 to 6. CHEMICAL PROBLEMS. Investigation of relatively simple problems under the direction of a staff member. Prerequisites: senior standing, major in chemistry with 4.0 average, and consent of department.

Courses on the 500 level are for graduate students only.

- 511-3. ADVANCED INORGANIC CHEMISTRY. A theoretical and empirical treatment of chemical bonding and molecular structure. Lecture. Prerequisite: 460 or 461.
- 512-3. ADVANCED INORGANIC CHEMISTRY. A systematic consideration of the chemistry of the elements, including special topics such as non-aqueous solvent systems, inorganic stereochemistry, and silicon analogues of organic compounds. Lecture. Prerequisite: 511.
- 513-3. ADVANCED INORGANIC CHEMISTRY. A continuation and extension of 512. Lecture. Prerequisite: 512.

- 531-3. THEORY OF QUANTITATIVE ANALYSIS. The phenomena utilized in analytical chemistry, with emphasis on separation, organic reagents, and complex methods. Lecture. Prerequisite: 433 or equivalent.
- 532-2 or 3. INSTRUMENTAL METHODS OF ANALYSIS. Theory and practice of instrumental measurements in analysis with emphasis on commercial samples and applications to research. Lecture and laboratory. Two credits only to students presenting credit in 432. Prerequisite: 460 or registration in 462.
- 533-3. INDUSTRIAL ANALYTICAL METHODS. Theory of analytical procedures and techniques, current industrial applications. Lecture. Prerequisite: 532.
- 541-3. ADVANCED ORGANIC CHEMISTRY. A survey of the important classes of organic compounds. Lecture. Prerequisite: 343.
- 542-3. ADVANCED ORGANIC CHEMISTRY. Descriptive and theoretical organic chemistry. Lecture. Prerequisite: 541.
- 543-3. ADVANCED ORGANIC CHEMISTRY. A continuation of 542. Lecture. Prerequisite: 542.
- 551-3. ADVANCED BIOCHEMISTRY. A survey of recent advances in amino acid metabolism, protein biosynthesis, enzymic catalysis, and nucleic acid biochemistry. Lecture. Prerequisite: 452.
- 552-3. ADVANCED BIOCHEMISTRY. Chemistry, biochemistry, and industrial uses of carbohydrates (including polysaccharides) and lipids. Lecture. Prerequisite: 452.
- 553-3. ADVANCED BIOCHEMISTRY. Biosynthetic mechanisms of photosynthetic and chemosynthetic organisms. Lecture. Prerequisite: 452.
- 561-3. CHEMICAL THERMODYNAMICS. Basic methods and theories as applied to chemical problems. Lecture. Prerequisites: 463, diagnostic examination.
- 562-3. ATOMIC AND MOLECULAR STRUCTURE. A survey of basic principles in atomic spectroscopy, quantum chemistry, and statistical thermodynamics. Lecture. Prerequisites: 511, 561.
- 563-3. CHEMICAL KINETICS. Factors determining the rates of chemical reactions. Lecture. Prerequisite: 562.
- 575-1 to 3. GRADUATE SEMINAR. Advanced level talks presented and discussed by graduate students. Required for all graduate students.
- 576-3. GENERAL SEMINAR FOR TEACHING CHEMISTRY. Will include recent advances in chemistry, technology, and current problems in science education. Prerequisite: 1 year of public school chemistry teaching.
- 596-3 to 9. ADVANCED CHEMICAL PROBLEMS. Independent study and investigation in selected advanced fields under the supervision of a staff member. Prerequisite: consent of department chairman.
- 599-3 to 15. RESEARCH AND THESIS. Research in the several fields of chemistry. Prerequisite: consent of department chairman.

CHEMISTRY SERVICE COURSES

- 101-4. GENERAL CHEMISTRY. A survey course for students who wish only to satisfy the general education requirements in physical science. A terminal course and not for chemistry majors and minors or for agriculture, home economics, pre-medical, pre-engineering, and other students who require more than one term of chemistry. Composition and

states of matter, valence, formulas and equations, solutions and electrolytes; water, oxygen, carbon, sodium, and iron. Lecture and laboratory.

The following series of service courses is offered for the benefit of non-chemistry majors who require a condensed knowledge of various branches of chemistry for application in their major fields.

- 110-4. GENERAL AND INORGANIC CHEMISTRY. A survey course not open to engineering students or to students requiring more than four terms of chemistry. A brief introduction to the structure of the atom and chemical bonding; acids, bases, salts, and pH; and a study of the properties and reactions of some of the more common elements. 3 lecture and 3 laboratory hours per week.
- 230-4. GENERAL ANALYTICAL CHEMISTRY. A survey course in chemical analysis not open to chemistry majors. A brief introduction to various analytical methods. Qualitative and quantitative measurements, including gravimetry, volumetry, colorimetry, and other techniques. 2 lecture and 6 laboratory hours per week. Prerequisite: 110 or 112.
- 240-4. ORGANIC CHEMISTRY. A survey course in organic chemistry not open to chemistry majors. A brief introduction to aliphatic and aromatic compounds with emphasis on those of biological importance. 3 lecture and 3 laboratory hours per week. Prerequisite: 110 or 112.
- 350-4. BIOLOGICAL CHEMISTRY. A brief introduction to metabolism, nutrition, and the chemistry of the important biological processes in plants and animals. 3 lecture and 3 laboratory hours per week. Prerequisite: 240 or 306 or 343.

ENGLISH

Research Professor Harry T. Moore, Ph.D. (Boston)	1957
Professor James G. Benziger, Ph.D. (Princeton)	1950
Professor E. C. Coleman, Ph.D. (Illinois)	1946
Professor Robert D. Faner, Ph.D. (Pennsylvania)	1930
Professor Jesse W. Harris, Ph.D. (Illinois)	1939
Professor W. B. Schneider, Ph.D. (Chicago), Chairman	1936
Professor Charles D. Tenney, Ph.D. (Oregon)	1931
Professor Georgia Gantt Winn, Ph.D. (Pittsburgh)	1947
Associate Professor Frances M. Barbour, M.A. (Washington University)	1925
Associate Professor Daniel Cook, Ph.D. (California)	1957
Associate Professor Edith S. Krappe, Ph.D. (Pennsylvania)	1929
Associate Professor William E. Simeone, Ph.D. (Pennsylvania)	1950
Associate Professor E. Earle Stibitz, Ph.D. (Michigan)	1952
Assistant Professor Julia M. Barber, A.M. (Illinois), Emerita (1957)	1936

Assistant Professor Charles S. Blinderman, Ph.D. (Indiana)	1956
Assistant Professor Winifred Burns, A.M. (Illinois)	1939
Assistant Professor George C. Camp, Ph.D. (Indiana)	1947
Assistant Professor Elizabeth A. Cox, A.M. (Kansas), Emerita (1949)	1920
Assistant Professor John Joseph Leonard, M.A. (Iowa)	1959
Assistant Professor Fred K. Lingle, A.M. (Illinois)	1948
Assistant Professor Robert B. Partlow, Jr., Ph.D. (Harvard)	1957
Assistant Professor Roy G. Pickett, Ph.D. (Iowa)	1957
Assistant Professor Raymond S. Rainbow, Jr., Ph.D. (Chicago)	1949
Assistant Professor Walter F. Staton, Jr., Ph.D. (Pennsylvania)	1955
Assistant Professor Howard W. Webb, Jr., Ph.D. (Iowa)	1956
Instructor Martha M. Clark, M.A. (Southern Illinois)	1953
Instructor Charles T. Crowe, M.A. (Southern Illinois)	1958
Instructor Diana L. Dodd, M.A. (Southern Illinois)	1955
Instructor Betty Lou H. Mitchell, M.A. (Southern Illinois)	1949
Instructor Edna S. Travis, M.S. in Ed. (Southern Illinois)	1948

Visiting Professor Thomas W. Baldwin, Ph.D. (Princeton)	1958-60, 1961-62
Lecturer Myra Becker, M.A. (Columbia)	1959-61
Lecturer Leon Bennett, M.A. (Southern Illinois)	1959-62
Lecturer Evelyn Tripp Berdahl, M.A. (Chicago)	1958-62
Lecturer Francisco Betancourt, B.A. (San Jose State)	1961-62
Lecturer Bert O. Bishop, M.A. (Southern Illinois)	1960-62
Lecturer William Carroll, M.A. (Southern Illinois)	1960-62
Lecturer Thomas Cassidy, M.A. (Notre Dame)	1958-62
Lecturer John F. Frank, M.A. (Johns Hopkins)	1960-62
Lecturer Mary Hartzog, M.A. (Texas Western)	1961-62
Lecturer Charles Hearn, M.A. (Southern Illinois)	1960-62
Lecturer Lewis J. Hilliard, M.A. (Southern Illinois)	1959-62
Lecturer Frances Huff, M.A. (Southern Illinois)	1954-62
Lecturer Bettie Shull Hughes, M.A. (Missouri)	1958-62
Lecturer Charlotte Koomjohn, M.A. (Miami University)	1956-62
Lecturer Marie Loucks, M.A. (Southern Illinois)	1960-62
Lecturer Carl Lutes, M.A. (Columbia; Southern Illinois)	1959-62
Lecturer Joan Martin, M.A. (Southern Illinois)	1960-62
Lecturer John McCall, Ph.D. (Florida State)	1957-62
Lecturer Charlotte McLeod, M.A. (Southern Illinois)	1957-58; 1959-62
Lecturer Virginia Meredith, M.A. (Miami)	1961-62
Lecturer Emilyn S. Morris, M.S. in Ed. (Southern Illinois)	1959-62
Lecturer Peter Notaras, M.Ed. (Illinois)	1957-62

Lecturer James Waldo Read, M.A. (Southern Illinois)	1960-61
Lecturer Mabel M. Schwartz, M.A. (Southern Illinois)	1961-62
Lecturer Mary Simon, M.A. (Illinois)	1959-62
Lecturer Beatrice Stegeman, M.A. (Southern Illinois)	1960-61
Lecturer Edith Waddock, M.A. (St. Louis)	1961-62
Lecturer Muriel West, Ph.D. (Arkansas)	1958-62
Lecturer Blanche Wilhelm, M.A. (Columbia)	1961-62

SUGGESTED CURRICULUM IN ENGLISH

The following curriculum leads to the Bachelor of Arts degree with a major in English in the College of Liberal Arts and Sciences.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)	37
<i>Requirements in the Department of English</i>	48
English 205 and one additional 200-level course	6
English 300, 302, 309, 316, 317, 390	23
One 400-level course in each of the "types." These three courses should be selected so as to fall into three different literary periods. See "Types" and "Periods" below.	12
English electives to fulfill the required total of 48 hours	7
<i>Duplication of Requirements</i>	-6
The 200-level English courses listed above also satisfy 6 hours of General Degree Requirements. These hours are deducted here to avoid counting them twice in the total.	
<i>Electives</i>	42
<i>Total</i>	192

The curriculum leading to the Bachelor of Science in Education degree with a major in English in the College of Education includes the following *Requirements in the Department of English*:

All of the courses listed above under this heading	41
English 485	4
English electives to complete 48 hours	3

Other requirements for the degree are given in the College of Education bulletin. (See page ii of this bulletin.)

The 400-level courses in types and periods are classified as follows:

TYPES

Poetry: 421, 422, 423, 470, 473
Drama: 461, 463, 464, 468, 471, 472
Fiction: 454, 455, 456, 457, 458, 459

PERIODS

The Medieval: 404, 470

The Renaissance: 412, 460, 471, 472

The 17th-18th Centuries: 413, 414, 441, 454, 461, 473

The 19th Century: 415, 416, 417, 421, 443, 455, 458

The 20th Century: 422, 423, 456, 457, 459, 463, 464

It is required that the major have at least one year of a foreign language, preferably French or German.

Recommended electives are 301; 485; extra courses in types and periods; courses in criticism, linguistics, professional writing; and certain courses in philosophy. Membership in the English Club is expected.

The student should consult the department chairman as soon as he knows that he will major in English, and should thereafter have his advance registration approved by the chairman each quarter. Deviations from the generally prescribed major requirements should not be made without prior approval.

The English minor is twenty-five hours, prescribed as follows: from sophomore work, 6 hours; 300; 309; 302 and 316, or 316 and 317; 390. Deviations from this minor should have the approval of the chairman of the Department of English.

COURSE DESCRIPTIONS

- 101-3. 102-3, 103-3. COMPOSITION. Expository writing, with emphasis upon the sentence, organization, and the research paper. Prerequisite: 101 to 102, 102 to 103.
- 105-3 to 6. ENGLISH AS A FOREIGN LANGUAGE. Open to foreign students only. Maximum of 3 hours to be earned per quarter; graduate students receive no credit.
- 205-3. INTRODUCTION TO POETRY. Emphasis on technique, type, and period.
- 206-3. INTRODUCTION TO DRAMA. The form, artistry, and ideas of various plays from most of the notable literary periods. Approximately twenty plays read.
- 209-3. INTRODUCTION TO WORLD LITERATURE. A reading of masterpieces of European literature to the Renaissance.
- 211-3. INTRODUCTION TO FICTION. An examination of the novel; designed to acquaint the student with the important aspects of artistic excellence in this form.
- 212-3. INTRODUCTION TO MODERN LITERATURE. Principal forms, ideas, and writers of the literature of America and England in the twentieth century. Especially recommended to majors in other fields than English.
- 300-4. PRINCIPLES OF ENGLISH GRAMMAR. Required of majors and minors in English. Majors and minors other than in English should take 391. Credit not allowed for both courses.

- 301-3. INTRODUCTION TO SEMANTICS. The nature of language, the emotional and intellectual content; breaking down linguistic naivete, and developing a consciousness of the motives in the use of language.
- 302-4. ENGLISH LITERATURE TO 1550. Required of English majors.
- 309-4. A SURVEY OF AMERICAN LITERATURE TO 1860.
- 310-4. A SURVEY OF AMERICAN LITERATURE SINCE 1860.
- 312-3. FOLKLORE. A study of the types of folklore, and wide reading in the field. Students expected to collect and classify examples from local lore.
- 316-4. ENGLISH LITERATURE, 1550 to 1750. Required of majors.
- 317-4. ENGLISH LITERATURE AFTER 1750. Required of majors.
- 320-4. EARLY NINETEENTH CENTURY POETRY.
- 335-4. THE SHORT STORY.
- 356-4. THE NOVEL SINCE 1900. Novelists of various nations. Recommended for students not majoring in English.
- 362-4. THE DEVELOPMENT OF TRAGIC DRAMA FROM AESCHYLUS TO THE PRESENT TIME. Principal tragic dramas and the shifting conceptions of tragic form and matter in the various ages.
- 365-4. SHAKESPEARE.
- 390-3. ADVANCED COMPOSITION. Expository writing.
- 391-3. USAGE IN SPOKEN AND WRITTEN ENGLISH. The essentials of grammar and the "common decencies." Prerequisite to student teaching, except for English majors and minors, who take 300.
- 392-3. PROFESSIONAL WRITING I. Introductory course for undergraduates. Prerequisite to 492, but credit for the course does not constitute automatic admission to 492. Prerequisite: consent of instructor.
- 400-4. INTRODUCTION TO ENGLISH LINGUISTICS. An analysis of English structure, its phonemics, morphemics, and syntax. Recommended for those preparing to teach English grammar and needing an introduction to the structural approach.
- 403-4. THE HISTORY OF THE ENGLISH LANGUAGE. A survey of the development of the language from Indo-European to modern English with special emphasis on Middle and Early Modern English changes.
- 404-4. CONTEMPORARIES AND SUCCESSORS OF CHAUCER. Late fourteenth and early fifteenth century English literature, from *Sir Gawayne and the Grene-Knight* to the Scottish Chaucerians.
- 412-4. SIXTEENTH CENTURY NONDRAMATIC LITERATURE. Prerequisites: one or more survey courses up to and including the sixteenth century.
- 413-4. SEVENTEENTH CENTURY NONDRAMATIC ENGLISH LITERATURE.
- 414-4. EIGHTEENTH CENTURY NONDRAMATIC ENGLISH LITERATURE.
- 415-4. EARLY ROMANTICS. Major emphasis on general background and on Blake, Coleridge, and Wordsworth.
- 416-4. LATER ROMANTICS. Major emphasis on Byron, Shelley, and Keats; also the minor figures.
- 417-4. VICTORIAN LITERATURE. Ideas, forms, and personalities in English literature from 1830 to 1900. Prerequisite: 317.
- 421-4. VICTORIAN POETRY. Tennyson, Browning, Arnold, and other poets of England, 1830-1900. Prerequisite: 205, 317.
- 422-4. MODERN BRITISH POETRY.

- 423-4. MODERN AMERICAN POETRY. A study of the important poets, beginning with Robinson. Prerequisite: 309 or 310.
- 431-4. AMERICAN LITERATURE I, TO 1789.
- 432-4. AMERICAN LITERATURE II, TO 1865.
- 433-4. AMERICAN LITERATURE III, TO 1914.
- 438-4. INTELLECTUAL BACKGROUNDS OF AMERICAN LITERATURE. The relationship of basic ideas in America to American literature. Prerequisite: 309 or 310.
- 441-4. THE EIGHTEENTH CENTURY ESSAY. The informal essay and the literary periodicals—*The Spectator*, *Tatler*, *Guardian*, *Rambler*, *Idler*, and Goldsmith's *Citizen of the World* ("Chinese Letters").
- 443-4. VICTORIAN PROSE. The chief writers of nonfiction prose from the late romantics to 1900. Prerequisite: 317.
- 447-4. AMERICAN HUMOR AND SATIRE. A consideration of the writers and forms of nineteenth and twentieth century humor.
- 454-4. EIGHTEENTH CENTURY NOVEL. Defoe through Jane Austen.
- 455-4. VICTORIAN NOVEL. Major novelists and principal tendencies in English fiction, 1830-1900. Prerequisite: 211 or 317.
- 456-4. CONTEMPORARY CONTINENTAL FICTION.
- 457-4. CONTEMPORARY BRITISH FICTION. Outstanding figures, influences, and trends in the British novel and short story since 1914.
- 458-4. AMERICAN NOVEL. The novel in America from its beginnings to the early twentieth century. Prerequisite: 309 or 310.
- 459-4. CONTEMPORARY AMERICAN FICTION. Trends and techniques in the American novel and short story since 1914.
- 460-4. RENAISSANCE DRAMA. The evolution of the 'regular' drama from the mid 1550's to the closing of the theaters. Extensive reading of plays and familiarity with the contemporary theatrical background.
- 461-4. RESTORATION AND EIGHTEENTH CENTURY DRAMA. British drama after 1660; representative types of plays from Dryden to Sheridan.
- 463-4. MODERN BRITISH DRAMA.
- 464-4. MODERN CONTINENTAL DRAMA. The continental drama of Europe since 1870; representative plays of Scandinavia, Russia, Germany, France, Italy, Spain, and Portugal.
- 468-4. AMERICAN DRAMA. The rise of the theater in America, with readings of plays, chiefly modern. Prerequisite: 309 or 310.
- 470-4. CHAUCER.
- 471-4. SHAKESPEARE. The plays before 1600. Readings on the life of Shakespeare, the theater, and the acting company.
- 472-4. SHAKESPEARE. The plays of 1600 and later. Readings on the life of Shakespeare, the theater, and the acting company.
- 473-4. MILTON.
- 485-4. PROBLEMS IN THE TEACHING OF ENGLISH. Aims, methods, materials, tests, programs, and other aspects of English instruction in the high school.
- 486-2 to 8. WORKSHOP IN HIGH SCHOOL ENGLISH. Intensive workshop study in lectures, laboratory, conferences, to arrive at agreement on the teaching of English in high school. Curriculum, materials, methods, aims. Directed by competent authorities in the field.
- 487-2 to 8. WORKSHOP IN JUNIOR HIGH SCHOOL ENGLISH. Intensive workshop study in lectures, laboratory, conferences, to arrive at agree-

- ment on the teaching of English in junior high school. Curriculum, materials, methods, aims. Directed by competent authorities in the field.
- 492-4. PROFESSIONAL WRITING II. Prerequisites: 392 and/or consent of instructor.
- 493-4. PROFESSIONAL WRITING III. Prerequisites: 492 and consent of instructor.
- 495-4. HISTORY OF LITERARY CRITICISM. The ideas and techniques of criticism, from Aristotle to the end of the nineteenth century.
- 498-4. MODERN LITERARY CRITICISM. Recent critics and critical attitudes, and practice in writing criticism.
- 499-2 to 6. READINGS IN ENGLISH. For English majors only. Departmental approval required. No more than 4 hours may be taken in any one quarter.

Courses on the 500 level are for graduate students only.

- 500-2. MATERIALS AND METHODS OF RESEARCH IN ENGLISH. The principal tools of literary scholarship and the more important studies and journals. Practice in the preparation of selective bibliographies and scholarly reports.
- 501-4. OLD ENGLISH GRAMMAR. The development of the forms; the grammar; and readings. Credit allowed only if the student also takes 502. Prerequisite: 300 or 403.
- 502-4. BEOWULF. Reading of the poem and study of its form, language, and history. Prerequisite: 501.
- 503-4 or 8. STUDIES IN LINGUISTICS. In alternate years (a) Phonetics and Phonemics, (b) Morphemics and Syntax. Prerequisite: 400 or consent of instructor.
- 508-4 or 8. STUDIES IN CHAUCER. Problems in Chaucer, scholarship and criticism. Prerequisite: 470 or consent of instructor.
- 509-4 or 8. STUDIES IN MIDDLE ENGLISH. At the discretion of the instructor, (a) Readings chiefly in Early Middle English with attention to the grammar and phonology of the dialects, (b) A study of Middle English literature exclusive of Chaucer or of one of the more literary types, the scholarship and criticism.
- 511-4 or 8. STUDIES IN THE RENAISSANCE. Individual research problems involving the use of primary source materials in extensive microfilm and microcard collections, etc. Prerequisites: 302, or consent of instructor, and 316, or equivalent, or 412.
- 513-4 or 8. STUDIES IN SEVENTEENTH CENTURY LITERATURE.
- 514-4 or 8. STUDIES IN RESTORATION AND EIGHTEENTH CENTURY LITERATURE.
- 518-4 or 8. STUDIES IN THE VICTORIAN PERIOD.
- 519-4 or 8. STUDIES IN CONTEMPORARY BRITISH LITERATURE.
- 520-4 or 8. STUDIES IN ROMANTIC WRITERS. Prerequisite: 316 or 320; or 415 or 416.
- 524-4 or 8. STUDIES IN THE METAPHYSICAL POETS.
- 531-4 or 8. STUDIES IN THE AMERICAN COLONIAL PERIOD. Prerequisite: 431 or consent of the instructor.
- 532-4 or 8. STUDIES IN AMERICAN TRANSCENDENTALISM. Prerequisite: 432 or consent of the instructor.

- 534-4 or 8. STUDIES IN EARLY NINETEENTH CENTURY AMERICAN WRITERS. Prerequisite: 432 or consent of instructor.
- 536-4 or 8. STUDIES IN LATER NINETEENTH CENTURY AMERICAN WRITERS. Prerequisite: 433 or consent of instructor.
- 537-4 or 8. STUDIES IN TWENTIETH CENTURY AMERICAN WRITERS. Prerequisite: 423, 433, 459, or consent of instructor.
- 538-4 or 8. PROBLEMS IN AMERICAN LITERATURE. Study of a topic, concept, or idea as it appears in American writing. Prerequisites: at least two 400-level American literature courses.
- 543-4 or 8. STUDIES IN VICTORIAN NONFICTION PROSE.
- 555-4 or 8. STUDIES IN THE VICTORIAN NOVEL.
- 566-4 or 8. STUDIES IN SHAKESPEARE. Detailed study of a limited number of the major plays: historical and technical problems considered in the light of recent scholarship in the field. Prerequisites: 365, or equivalent, and one other course in drama of the Renaissance (or earlier).
- 580-4. TRADITIONAL THEMES. Persistent themes and legends in literature—King Arthur, Faust, Utopia, and the like.
- 585-2 to 8. TEACHING COLLEGE COMPOSITION. Objectives, methods, and materials for the course; observation; and practice under supervision.
- 586-4 or 8. TEACHING COLLEGE LITERATURE. Chief emphasis on freshman and sophomore literature; objectives; methods; materials; observation; and practice under supervision.
- 598-1 to 9. REVIEW OF ENGLISH AND AMERICAN LITERATURE.
- 599-2 to 9. THESIS.
- 600-1 to 48. DISSERTATION.

FOREIGN LANGUAGES

Professor Albert William Bork, Doctor en Letras (National University of Mexico)	1958
Professor Boyd G. Carter, Ph.D. (Illinois)	1959
Professor J. Cary Davis, Ph.D. (Chicago)	1930
Professor Hellmut A. Hartwig, Ph.D. (Illinois)	1948
Professor Vera L. Peacock, Ph.D. (Cornell), Chairman	1930
Associate Professor Mary Eileen Barry, Ph.D. (Chicago)	1946
Associate Professor Madeleine M. Smith, Ph.D. (Yale)	1929
Assistant Professor Helmut Liedloff, Ph.D. (Phillips University, Marburg, Germany)	1959
Assistant Professor A. K. Neufeld, A.M. (Kansas)	1945
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Visiting Professor Yury Arbatsky, M.D. (Leipzig), Ph.D. (Prague)	1960-61
Visiting Professor Luis Baralt, Ph.D. (Havana)	1960-1962
Visiting Professor Mary K. Niddrie, Ph.D. (London)	1961-1962
Lecturer Basil C. Hedrick, M.A. (Florida)	1959
Lecturer J. A. LaFontaine, B.A. (Mexico City College)	1960

Lecturer Leo Noah Shechmeister, M.A. (Valparaiso)	1961-1962
Lecturer Nancy Ann Young, M.A. (Southern Illinois)	1961-1962

SUGGESTED CURRICULA IN A LANGUAGE

The following curriculum leads to the Bachelor of Arts degree with a major in a language in the College of Liberal Arts and Sciences.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)	
Omit 9 hours of foreign language.)	28
<i>Requirements in the Department of Foreign Languages</i>	42-51
A minimum of 42 hours in a language, exclusive of 101, 102, 103 (A 48-hour major is also available.)	42
Prerequisites to 201	0-9
101, 102, 103; or 102, 103, and one year of high school work in the language; or two years of high school work in the language	
<i>Related Requirements for the Major</i>	6
At least one English course and one history course, both numbered above 299	
<i>Electives</i>	36-45
<i>Total</i>	192

The curriculum leading to the Bachelor of Science in Education degree with a major in a language in the College of Education includes the following *Requirements for the Major*:

A minimum of 36 hours in a language, exclusive of 103. (A 48-hour major is also available.)	36
A minimum of one English course and one history course, each numbered 300 or above.	6
Other requirements for the degree are given in the College of Education bulletin. (See page ii of this bulletin.)	

A minor consists of twenty-four hours of the language, exclusive of 101, 102, and 103.

Students taking work in any 101, 102, and 103 language series should note that 101 and 102 will not be counted as electives toward graduation unless 103 is also completed.

Reference is made here to two scholarships made available to students of this University by the Benjamin Franklin School, located in Lima, Peru. These scholarships pay tuition and fees for nine months at San Marcos University; room and board in the Benjamin Franklin School; opportunity to earn spending money during free time; and assistance in learning

Spanish as a foreign language. Applicants will need to finance their own round trip transportation and participate in the English program of student teaching in the Benjamin Franklin School. Interested applicants should consult Professor J. Cary Davis, Department of Foreign Languages.

COURSE DESCRIPTIONS

FOREIGN LANGUAGES

- 140-2. LATIN AND GREEK ELEMENT IN ENGLISH I. Presentation in English contexts of Greek and Latin roots basic in modern technical and scientific vocabulary. No knowledge of the ancient languages required.
- 240-2. LATIN AND GREEK ELEMENT IN ENGLISH II. Similar to 140 but more advanced and introducing medical terms.
- 380-2. BASIC FRENCH AND ITALIAN TERMS OF HOME ECONOMICS. A study of the pronunciation and use of French and Italian terms applicable to home economics.
- 381-2. BASIC SPANISH AND GERMAN TERMS OF HOME ECONOMICS. A study of the pronunciation and use of Spanish and German terms applicable to home economics.
- 435-4 to 8. WORKSHOP IN ELEMENTARY SCHOOL FOREIGN LANGUAGE INSTRUCTION. Designed to assist elementary school teachers in integrating foreign languages into their teaching program as well as to encourage high school teachers to introduce or supervise foreign languages at the elementary school level. To count as education or foreign languages. Prerequisite: basic language credit.
- 445-2 to 8. SOUTH AMERICAN STUDY TOUR. Study tour of various South American countries. Tour preceded by required reading, lectures, and examination. Lectures by professors of universities in countries visited on topics of special interest in each country. Study of political, economic, social, historical, artistic, and geographic characteristics of these countries. Credit may be earned in foreign languages, or in a combination of departments, as determined by consultation with department chairmen and the Latin American Institute. Final week on campus for completion of papers and reports. Prerequisite: advanced standing in major department.

FRENCH

- 101-3, 102-3, 103-3. ELEMENTARY COURSE. 101 open to students who have had no previous work in French. Prerequisite for 102: 101 or one year of high school French.
- 101c-1, 102c-1, 103c-1. FRENCH CONVERSATION. Courses in conversation and oral drill taken with 101, 102, 103 by students who wish additional oral training: elected only by students enrolled in 101, 102, 103.
- 161-0. FRENCH FOR GRADUATE STUDENTS. Intensive study of grammar and vocabulary. Designed for graduate students desiring a reading knowledge of French.
- 201-3, 202-3, 203-3. INTERMEDIATE COMPOSITION AND READING. Grammar; composition, oral practice; rapid reading of modern authors. Prerequisite: 103 or two years of high school French.

- 220-2 to 6. FRENCH CONVERSATION. Conversation based largely on topics of current interest chosen from French newspapers and reviews.
- 301-3. THE FRENCH NOVEL OF THE EIGHTEENTH AND NINETEENTH CENTURIES. Lectures, collateral reading, and reports.
- 302-3. SEVENTEENTH AND EIGHTEENTH CENTURY DRAMA. Intensive study of Corneille, Racine, Molière, Marivaux, and Beaumarchais. Outside reading of minor dramatists.
- 303-3. FRENCH LYRIC POETRY. French versification; Romantic, Parnassian, and Symbolist schools; contemporary poets.
- 304-3. FRENCH CONTEMPORARY NOVEL. Study of the novel from 1889 to the present, with emphasis on the symbolistic, regional, psychological, and sociological novels. Detailed study of Proust or Gide.
- 305-3. FRENCH CONTEMPORARY DRAMA. Study of French drama from Dumas fils to the present, with emphasis on the *pièce à thèse*, the *théâtre libre*, symbolistic drama, and the drama of modern social problems.
- 311-4, 312-4, 313-4. SURVEY OF FRENCH LITERATURE. A study of the important currents of French literature from the beginning to the present time. One hour each week devoted to French composition. This series should follow immediately after 203.
- 340-2. FRENCH LITERATURE OF THE SIXTEENTH CENTURY. Rabelais, Montaigne, the memoir writers, Marot, the Pléiade, and d'Aubigny.
- 351-4. ADVANCED COMPOSITION. Rapid grammar review, study of idiomatic construction; weekly themes. Course conducted in French.
- 352-5. FRENCH CONVERSATION AND PHONETICS. A thorough study of the phonetic alphabet and the formation of French sounds. Course conducted in French.
- 353-4. ADVANCED COMPOSITION AND CONVERSATION. Oral and written composition of a practical nature for advanced students; intensive study of idiomatic expressions and current usage.
- 440-2. FRENCH POETRY OF THE RENAISSANCE. Development of French poetry from 1550 to 1600.

Courses on the 500 level are for graduate students only.

- 500-2. SEMINAR IN CONTEMPORARY FRENCH LITERATURE. Intensive study of the "Roman fleuve" as exemplified in the works of Duhamel, Martin du Gard, and Romains.
- 501-2 to 6. SEMINAR ON A SELECTED FRENCH AUTHOR. Intensive study of one author—his life, his work, and his place in the literary and cultural developments of civilization. A. Balzac, B. Baudelaire, C. Molière, D. Montaigne, E. Proust.
- 509-4. FRENCH LITERATURE FROM 1800 to 1850. Romanticism in French literature and its relation to the general European Romantic movement.
- 510-4. FRENCH LITERATURE FROM 1850 TO 1900.
- 511-3. TWENTIETH-CENTURY FRENCH DRAMA. French drama from 1900 to the present.
- 520-4. GRADUATE COMPOSITION AND DICTION. Composition based on study of contemporary French authors; individual work in pronunciation and diction determined by entrance tests.
- 599-2 to 9. THESIS.

GERMAN

- 101-3, 102-3, 103-3. **ELEMENTARY COURSE.** 101 open to students who have had no previous work in German. Prerequisite for 102: 101 or one year of high school German.
- 101c-1, 102c-1, 103c-1. **GERMAN CONVERSATION.** Courses in conversation and oral drill taken with 101, 102, 103, by students who wish additional oral training: elected only by students enrolled in 101, 102, 103.
- 161-0. **GERMAN FOR GRADUATE STUDENTS.** Intensive study of grammar and vocabulary. Designed for graduate students desiring a reading knowledge of German.
- 201-3, 202-3, 203-3. **INTERMEDIATE COURSE.** Grammar review and expansion; reading in modern prose; conversation and composition. Two periods a week devoted to literature; and one to grammar and composition. Prerequisite: 103 or two years of high school German.
- 220-2 to 6. **ADVANCED GERMAN CONVERSATION.** Conversation based on topics of current interest. Extensive use of German newspapers, periodicals, and records. Prerequisite: consent of instructor.
- 251-4. **SCIENTIFIC GERMAN.** A study of vocabulary and sentence construction as found in German scientific writings. Prerequisite: 202 or equivalent.
- 301-4, 302-4. **SURVEY OF GERMAN LITERATURE TO 1800.** The historical development of German literature; lectures; reading of representative authors.
- 303-4. **GERMAN "NOVELLE" IN THE NINETEENTH CENTURY.** A study of representative work from 1800 to 1900, with emphasis on the literary movements of that time.
- 304-5. **ADVANCED COMPOSITION AND CONVERSATION.** Based on the history of German civilization. Required for prospective teachers of German.
- 311-4, 312-4. **INTRODUCTION TO GERMAN CLASSICAL LITERATURE.** Lessing, Goethe, Schiller. Reading and discussion of representative works.
- 313-4. **GERMAN DRAMA IN THE NINETEENTH CENTURY.** Kleist, Grillparzer, Hebbel. Reading and discussion of representative works.
- 401-2. **GOETHE'S FAUST, PART I.** The Faust legend and early Faust books and plays; the genesis of Goethe's Faust; reading of Part I. Lectures, reports.
- 402-2. **GOETHE'S FAUST, PART II.** Reading of Part II; study of symbolisms, such as Part II's blending of paganism with Christianity, ancient Greek culture with Germanic culture, Helen's Classicism with Faust's Romanticism. Lectures, reports.
- 403-3. **GERMAN BALLADS AND LYRICS.** A selective study of the foremost examples of German balladry and lyric poetry, ranging from the poetry of Klopstock and Bürger to that of Rilke and Werfel. Lectures, recitations.
- 411-3. **MIDDLE HIGH GERMAN I.** Grammar and selective readings in such national epic poems of the Middle High German Period as the *Nibelungen Lied* and *Gudrun*. Lectures, reports.
- 412-3. **MIDDLE HIGH GERMAN II.** The courtly epic poetry of such representative authors as Wolfram von Eschenbach, Gottfried van Strass-

burg, Hartmann von Aue, and the lyric poetry of Walther von der Vogelweide. Lectures, reports.

Courses on the 500 level are for graduate students only.

- 500-2. SEMINAR IN CONTEMPORARY GERMAN LITERATURE. Intensive study of the works of representative German authors, with special reference to the correlation existing between literary expression and social, economic, and political conditions since 1900. Lectures, outside readings, reports.
- 501-2. SEMINAR ON A SELECTED GERMAN AUTHOR. Intensive study of one author—his life, his work, and his place in the literary and cultural development of civilization. Lectures, outside readings, reports.
- 511-3 to 9. THESIS OR RESEARCH IN GERMAN LITERATURE. For students who are writing a thesis or making an advanced graduate study of some phase of German literature. Lectures, compilation of bibliographies, other research techniques, papers. 2 to 4 hours each quarter (maximum of 9 hours).
- 591-2 to 6. SEMINAR ON KANT. A selective study of the works of Immanuel Kant, with special emphasis on the influence exerted by Kantian philosophy on subsequent German literature. Course counted on a major in philosophy, subject to the consent of the Department of Philosophy. Lectures, outside readings, reports. 2 hours each quarter.

GREEK

- 101-4, 102-4, 103-4. ELEMENTARY COURSE. Grammar emphasized in the first quarter, and reading of an actual text begun in the second. The text selected, usually the New Testament.
- 201-4, 202-4, 203-4. INTERMEDIATE COURSE. Grammar review and composition. Readings from Plato. Prerequisite: 103.
- 301-4. INTRODUCTION TO GREEK HISTORY. Reading and discussion of selections from the histories of Herodotus and Thucydides.
- 302-4. PLATO. Reading and discussion of the *Republic*.
- 303-4. ARISTOTLE. Reading and discussion of the *Ethics*.
- 311-4, 312-4. INTRODUCTION TO HOMER. Reading and interpretation of selections from the *Iliad* and the *Odyssey*.
- 313-4. INTRODUCTION TO GREEK TRAGEDY. Reading of at least two plays from the works of Aeschylus, Sophocles, and Euripides.
- 320-3. SURVEY OF GREEK LITERATURE. Discussion of Greek literary works and their influence on later literature. No knowledge of Greek required.
- 330-3. CLASSICAL MYTHOLOGY. Study of the classical myths and their literary value. No knowledge of Greek or Latin required.

LATIN

- 101-3, 102-3, 103-3. ELEMENTARY COURSE. 101 open to students who have had no previous work in Latin. Prerequisite for 102: 101 or one year of high school Latin.
- 201-4. INTERMEDIATE COMPOSITION. Useful for teachers; a convenient review for students. Prerequisite: 103 or two years of high school Latin.
- 202-4. CICERO'S ESSAYS. Prerequisite: 103 or two years high school Latin.

- 203-4. LIVY. Prerequisite: 103 or two years of high school Latin.
- 301-4. CICERO'S LETTERS. Emphasis laid upon the history of the times and the personality of Cicero.
- 302-4. VERGIL'S ECLOGUES AND GEORGICS. Vergil's spirit and contribution to Rome considered.
- 303-4. TACITUS. The Agricola and Germania.
- 304-2. PRIVATE LIFE OF THE ROMANS. Comprising a personal study of the average family; housing, food, and clothing; marriage, education, amusements, slaves, and freedom; means of livelihood; death and burial. Open to all students whether they have had Latin or not.
- 311-4. PHORMIO OF TERENCE. Prerequisite: 203 or equivalent.
- 312-4. HORACE'S ODES AND EPODES. Prerequisite: 203 or equivalent.
- 313-4. LETTERS OF PLINY. Prerequisite: 203 or equivalent.
- 320-3. LATIN LITERATURE IN TRANSLATION. Discussion of Latin literary works and their influence on later literature. No knowledge of Latin required.
- 326-4. OVID'S METAMORPHOSES.
- 335-4. VERGIL'S AENEID.
- 342-4. ADVANCED COMPOSITION. A careful study based on classic prose-writers.

PORTUGUESE

- 100-5. INTRODUCTORY COURSE. Especially for Spanish majors and minors. Prerequisite: Spanish 203 or consent of instructor.
All five hours will count toward a Spanish major of forty-two hours or more. Three hours will count toward a Spanish minor, or a major of less than forty-two hours.

ROMANCE PHILOLOGY

- 410-4. ROMANCE PHILOLOGY I. A survey of the phonology, morphology, and syntax changes in Romance languages in general; special attention to developments in French and Spanish for majors in these fields. This course may be counted toward either a French or Spanish major.

Courses on the 500 level are for graduate students only.

- 514-4. ROMANCE PHILOLOGY II. Studies in syntax of Old French and Old Spanish, with special problems in the field of the student's major interest.
- 515-4. READINGS IN ROMANCE. Selected readings in the literature of Old French and Old Spanish, with emphasis upon the student's major field. Prerequisite: 410 or equivalent.
- 516-4. ARTHURIAN ROMANCE. Intensive readings in the Arthurian Romances in the field of the student's major interest (French or Spanish) with reference to the genre as a whole. Prerequisite: 410 or equivalent.

RUSSIAN

- 101-3, 102-3, 103-3. ELEMENTARY COURSE. Pronunciation; reading of elementary texts; oral practice; composition.
- 101c-1, 102c-1, 103c-1. RUSSIAN CONVERSATION. Additional practice in conversation and oral drill for students enrolled in 101, 102, 103.
- 201-3, 202-3, 203-3. INTERMEDIATE COURSE. Reading of classical and

- modern narrative prose; oral practice and sight reading; advanced composition. Prerequisite: 103.
- 220-2 to 6. RUSSIAN CONVERSATION. Advanced conversation based on topics of current interest. Prerequisite: 103.
- 251-4. SCIENTIFIC RUSSIAN. Study of vocabulary and sentence constructions as found in Russian readings on popular sciences. Prerequisite: 103.
- 301-4, 302-4. THE RUSSIAN NOVEL IN THE NINETEENTH CENTURY.
- 311-4, 312-4. INTRODUCTION TO RUSSIAN CLASSICAL LITERATURE. Short stories of Gogol, Pushkin, Turgenev, Tolstoy, etc.
- 313-4. RUSSIAN DRAMA IN THE NINETEENTH CENTURY. Griboyedov, Gogol, Pushkin, and minor dramatists.
- 320-2. READINGS IN RUSSIAN LITERATURE. Selected readings in areas not covered in regular course work.
- 352-4. ADVANCED COMPOSITION AND CONVERSATION. Oral and written composition for advanced students; intensive study of idiomatic expressions and current usage.

SPANISH

- 101-3, 102-3, 103-3. ELEMENTARY COURSE. 101 open to students who have had no previous work in Spanish. Prerequisite for 102: 101 or one year of high school Spanish.
- 101c-1, 102c-1, 103c-1. SPANISH CONVERSATION. Courses in conversation and oral drill for students who wish additional oral training; elected only by students enrolled in 101, 102, 103.
- 161-0. SPANISH FOR GRADUATE STUDENTS. Intensive study of grammar and vocabulary. Designed for graduate students desiring a reading knowledge of Spanish.
- 201-3, 202-3, 203-3. INTERMEDIATE COMPOSITION AND READING. Grammar review, composition, oral practice, rapid reading of modern authors. Prerequisite: 103 or two years of high school Spanish.
- 301-3. SPANISH NOVEL OF THE NINETEENTH AND TWENTIETH CENTURIES. Study of representative novels and authors from the Regionalists to the present time.
- 302-3. SPANISH DRAMA OF THE EIGHTEENTH AND NINETEENTH CENTURIES. Reading of selected plays of the chief dramatists from Moratin to the generation of 1898.
- 311-3, 312-3, 313-3. SURVEY OF SPANISH LITERATURE. A survey, continuing to the present day. Lectures and reading of representative authors. This series should follow immediately after 153. Offered alternately with 333, 334, 335.
- 315-3. ARTE Y CULTURA. Conducted in Spanish. Informal class discussion of reports of students on present day topics relating to the life and interests of Latin America and Spain; extensive use of films. Prerequisite: 220 or consent of instructor.
- 316-3. CIVILIZACION ESPANOLA. A study of the cultural patterns and heritage of the Spanish people from earliest times to the present. Prerequisite: 315 or consent of instructor.
- 320-2, 321-2, 322-2. ADVANCED CONVERSATION AND COMPOSITION. Required of majors and students preparing to teach. (May be taken concurrently with 311-312-313 or with 333-334-355.) Prerequisite: 202.

- 333-3, 334-3, 335-3. SURVEY OF SPANISH AMERICAN LITERATURE. A survey of Spanish literature in America from the conquest to modern times. Offered alternately with 311, 312, 313.
- 340-3. THE GOLDEN AGE. Extensive individual reading of the plays of Lope de Vega, Calderón, Tirso, Ruiz de Alarcón, and others, with class reports and intensive study of some one dramatist.
- 345-4. CERVANTES. Study of the life of the author and the Quijote with reference to style and source of materials. Comparative reports on the novelas and other works.
- 351-3. ADVANCED COMPOSITION. Daily themes based on Spanish models, with free composition once a week. Class discussions.
- 360-2 to 8. TRAVEL-STUDY COURSE IN MEXICO. Lectures and course work at Mexican universities, in conjunction with the Latin American Institute's Study Abroad Program. Native professors and lecturers in Mexico City and other points visited. Individual projects and reports. Prerequisite: advanced standing in Spanish.
- 415-3. SPANISH PHONETICS. Analysis of the sounds of Spanish and their manner of production; special drill in connected passages of prose and poetry.
- 478-4. SEMINAR IN LATIN AMERICAN THOUGHT. Investigation of research topics connected with Latin American thought during the nineteenth and twentieth centuries in the fields of government, social sciences, education, literature, and philosophy. Individual studies and reports. Prerequisite: consent of instructor.

Courses on the 500 level are for graduate students only.

- 500-2. SEMINAR IN LATIN-AMERICAN LITERATURE. Intensive study of the modern novel in Latin America as an expression of social and cultural movements. Outside readings and class discussions.
- 501-2. SEMINAR ON A SELECTED SPANISH AUTHOR. Intensive study of one author—his life, his works, and his relationships to the literary and social currents of his time.
- 505-3. THE PICARESQUE NOVEL. Class study of the Lazarillo, and collateral readings of other masterpieces of this genre.
- 506-3. THE RENAISSANCE. A study of the literature of the Renaissance in Spain, including the drama, the novel, the lyric poetry, and the histories of the Indies.
- 520-4. COMPOSITION AND GRAMMAR. Free composition, based upon analysis of the style of contemporary Spanish authors, with special reference to grammatical construction. Special projects in grammar.
- 525-3. THE SPANISH BALLADS. The *romance* studied as a part of the literature and folklore of Spain and the New World.
- 530-3. LATIN-AMERICAN POETRY. Study of the modern trends in the poetry of Latin America as a whole, with emphasis on its international aspect and its relation to other literary forms. Prerequisite: 333 or consent of instructor.
- 535-3. ENSAYISTAS MEXICANOS DEL SIGLO DIECINUEVE. Study and discussion of ideologies and conflict in thought as reflected in writings of Mexican essayists of the past century.
- 599-2 to 9. THESIS.

GEOGRAPHY

University Professor Charles C. Colby, Ph.D. (Chicago)	1951-52; 1953-54; 1957-62
Professor Floyd F. Cunningham, Ph.D. (Clark)	1947
Professor Robert A. Harper, Ph.D. (Chicago), Chairman	1950
Professor Wilbur Zelinsky, Ph.D. (California)	1959
Associate Professor Flemin W. Cox, A.M. (Illinois), Emeritus (1945)	1929
Associate Professor Annemarie Krause, Ph.D. (Chicago)	1930
Associate Professor Marjorie Shank, A.M. (Clark)	1923
Assistant Professor Ronald M. Beveridge, Ph.D. (Illinois)	1956
Assistant Professor Theodore H. Schmudde, Ph.D. (Wisconsin)	1959
Assistant Professor Howard A. Stafford, Jr., Ph.D. (Iowa)	1959
Assistant Professor Frank H. Thomas, Ph.D. (Northwestern)	1959
Assistant Professor Joseph Velikonja, Ph.D. (Rome, Italy)	1959
<hr/>	
Visiting Professor David L. Niddrie, M.Sc. (Natal)	1961-62
Visiting Lecturer David E. Christensen, Ph.D. (Chicago)	1961-62

A student may take his work in the field of geography in either the College of Liberal Arts and Sciences or the College of Education depending upon his objective:

1. In the College of Liberal Arts and Sciences geography majors prepare for careers in federal or local government research or planning. Today, more and more private businesses are utilizing trained geographers.
2. In the College of Education geography majors prepare to teach in the elementary or secondary schools, or with further preparation, in the junior colleges. Minors prepare to teach social science and earth and physical science in elementary or secondary schools.

Today a large number of geography majors take professional training beyond the bachelor's degree. Schools, colleges, and universities and government and business establishments, as well, are calling for persons with graduate training in geography.

SUGGESTED CURRICULA IN GEOGRAPHY

The following curriculum leads to the Bachelor of Arts degree with a major in geography in the College of Liberal Arts and Sciences.

DEPARTMENT OF GEOGRAPHY	47
<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)	37
<i>Requirements in the Department of Geography</i>	42
Geography 100, 101, 210, 250, 301, cartography	26
Geography electives to complete 42 hours	16
<i>Related Recommendations for the Major</i>	0
A background in statistical analysis is recommended.	
<i>Duplication of Requirements</i>	-5
Geography 100 satisfies 5 hours of General Degree Requirements as well as 5 hours of departmental requirements. These hours are deducted here to avoid counting them twice in the total.	
<i>Electives</i>	47
<i>Total</i>	192

The curriculum leading to the Bachelor of Science in Education degree with a major in geography in the College of Education includes the following *Requirements for the Major*:

Geography 100, 101, 210, 250, 301, cartography	26
Geography electives to complete 48 hours (only 42 hours if two 24-hour minors are presented)	22
One year of a foreign language	9

A background in statistical analysis is recommended. Other requirements for the degree are given in the College of Education bulletin. (See page ii of this bulletin.)

Geography 100, 101, 210, 250, 301, and cartography make up a three-stage core for training in geography. Geography 100 gives a general survey of the viewpoint of geography. The second stage consists of 101, 210, and 250. Each of these courses gives the "elements" of understanding of a particular aspect of geography that all geographers must know. The third stage is 301. In it the various elements of physical, economic, and cultural geography are tied together, and the methods used by geographers in working with the complex of man-land associations in a particular area are shown. Cartography is required, because this technique is considered essential to all geographic work.

It is recommended that majors complete the core courses before taking other geography courses. After completing the core, the major may choose any other geography courses in assembling the hours required for his major. However, his program should be approved by a departmental adviser.

Minors, too, are urged to take the core courses, for together these courses should offer the strongest basic preparation in geography.

Departmental undergraduate courses may be classified in the following areas of specialization:

Physical Geography: 310, 311, 324, 407, 431, 435, 436

Economic Geography: 404, 405, 406, 411, 470

Cultural Geography: 319, 444, 455

Regional Geography: 313, 314, 315, 316, 318, 321, 402, 413, 420

Geographic Techniques: 416, 417

Each of the courses in the economic, physical, and cultural specializations is a further development of the introductory material presented in the basic elements course of the core curriculum. Thus, for the major, 101 is prerequisite to all physical geography courses, 210 to all economic geography courses, 250 to all cultural geography courses. Regional courses, because they service students outside of the department, carry only 100 as a prerequisite. However, geography majors are urged to complete the core of courses before taking regional courses.

A broad background in other fields is of great importance to a geographer. Thus, it is recommended that geography majors hold their hours of geography to the minimum number required for the major and use their elective hours to take work in other departments. Students interested in physical geography should consider work in the departments of geology, botany, zoology, plant industries, forestry, and physics. Students interested in economic geography can profit from work in economics, agricultural industries, marketing, and transportation. Students specializing in cultural geography will find courses in sociology, anthropology, community development, history, and government particularly useful. Students interested in the geography of a particular area of the world are encouraged to take courses on the area in other departments. Programs of the Latin American Institute and the committees on Asian, Russian, and central European studies are particularly noted.

COURSE DESCRIPTIONS

- 100-5. GEOGRAPHY OF MAN. A world regional survey in which significant regional differences are observed and analyzed. Basic factors of population distribution form the core of the course. Tracing of development of man's working connections with the land and its resources. Satisfies social studies requirement for the bachelor's degree in all colleges of the University.
- 101-5. INTRODUCTION TO PHYSICAL GEOGRAPHY. Study of the nature of the earth's landforms, climate, water resources, natural vegetation, and soils with particular emphasis on their areal differences and distribution. Their relationships to each other and their importance to man are also considered.

- 210-4. INTRODUCTION TO ECONOMIC GEOGRAPHY. Study of the economic production types or occupations such as herding, farming, fishing, lumbering, mining, manufacturing, and transportation. Prerequisite: 100.
- 211-5. ECONOMIC GEOGRAPHY FOR BUSINESS STUDENTS. Designed to show the relationship between physical environment and economic life of people. Emphasis on economic-geographic factors of world distribution of resources, methods of production and transportation of important commodities of industry and commerce. Open only to students majoring in the School of Business.
- 250-4. INTRODUCTION TO CULTURAL GEOGRAPHY. Designed to introduce the broad field of cultural geography. An overview of the geographic viewpoint in the study of the human occupancy of the earth is presented. Aspects of population, settlement, and political geography are treated, and a generalized survey of major world cultural areas is used to integrate course elements. Prerequisite: 100.
- 300-4. WORLD CULTURAL GEOGRAPHY. World survey for students in other departments. The factors of population distribution. This course may be used to fulfill the social science requirement for the bachelor's degree. Not open to those who have had 100.
- 301-3. INTRODUCTION TO GEOGRAPHIC METHODS. Designed to introduce the geographic methods of integrating physical, economic, and cultural elements in the study of areas. Focus on generalizations concerning selected areas of varying magnitude and character. Cartographic and quantitative techniques utilized. Prerequisites: 101, 210, 250.
- 310-4. METEOROLOGY. Study of weather, the factors and conditions influencing it, its importance to man. Emphasis placed upon agriculture, aviation, business, industry, and everyday understanding of weather. Most recent findings in weather science studies. Of value to persons interested in weather bureau service.
- 311-4. GEOGRAPHY OF SOILS. The nature, source, and origin of soil material; soil development and soil use. Geographic distribution and significance of soil as an element of the environment. Prerequisite: 100, 101, or consent of instructor.
- 313-3. GEOGRAPHY OF ILLINOIS. Acquaints the student with the regional concepts of our state, the distribution of climate, vegetation, soil, landforms, and mineral resources; interrelates agriculture, manufacturing, industry, and population distribution, interpreted within a regional framework. Prerequisite: 100.
- 314-4. GEOGRAPHY OF ANGLO-AMERICA. A systematic regional treatment of North America, north of Mexico. An analysis of the ways in which major environmental and cultural factors have interacted through time and space in this region and its major subregions. Prerequisite: 100 or consent of instructor.
- 315-4. GEOGRAPHY OF EUROPE. A study of regions, with stress on their description, interpretation, and utilization. Emphasis on interdependence of political units. Prerequisite: 100 or consent of instructor.
- 316-4. GEOGRAPHY OF SOUTH AMERICA. A study of the regions and resources of the South American countries as they relate to national and international problems. Prerequisite: 100 or permission of instructor.
- 318-4. GEOGRAPHY OF ASIA. Survey of the countries of Asia, except the

- Asiatic portion of the U.S.S.R., emphasizing the relationship between the problems of the population and the resource base. Prerequisite: 100 or consent of instructor.
- 319-4. HISTORICAL GEOGRAPHY OF THE UNITED STATES. Study of elements of the geographic environment that have been important in the discovery, exploration, settlement, and development of the United States. Prerequisite: 100 or consent of instructor.
- 321-2. GEOGRAPHY OF AUSTRALIA. A study of the only continent which lies far beyond the periphery of the land hemisphere; its climatic and economic conditions; its vital place in the economic and political life of the Pacific. Prerequisite: 100 or consent of instructor.
- 324-4. RESTORATION AND CONSERVATION OF NATURAL RESOURCES. Survey of major resources of United States with stress on problems of conservation and restoration. Emphasis on water, mineral, forest, grass, soil, wildlife, scenic, and recreational resources. Field trips. Prerequisite: 100 or consent of instructor.
- 341-4. TEACHING OF GEOGRAPHY IN THE ELEMENTARY SCHOOL. Presentation and evaluation of methods of teaching geography in the elementary grades. Emphasis upon geographic literature, illustrative materials, and teaching devices suitable to particular age levels. Prerequisite: 100.
- 342-4. TEACHING OF GEOGRAPHY IN THE JUNIOR AND SENIOR HIGH SCHOOLS. Presentation and evaluation of methods of teaching geography in the junior and senior high schools. Emphasis upon geographic literature, illustrative materials, and teaching devices suitable to particular age levels. Prerequisite: 100.
- 402-4. THE SOVIET UNION. A study of the U.S.S.R. based on both a systematic and a regional approach. Appraisal of the natural-resource base of the U.S.S.R. as well as an estimate of her industrial and agricultural strength. Prerequisite: 100 or consent of instructor.
- 404-4. GEOGRAPHY OF AGRICULTURE. A functional study of the bases, interrelationships, and geographic distribution of agricultural production. Prerequisites: 100, 101, 210, or consent of instructor.
- 405-4. GEOGRAPHY OF MANUFACTURING. A functional study of the bases, interrelationships, and geographic distribution of manufacturing industries. Prerequisites: 100, 101, 210, or consent of instructor.
- 406-4. GEOGRAPHY OF TRANSPORTATION. A functional study of transportation networks emphasizing geographic theory and transportation factors, application of geographic techniques and methods, a brief survey of world transportation patterns, and an examination of major modes of transportation within the United States. Prerequisite: 100 and 210, or consent of instructor.
- 407-4. REGIONAL CLIMATOLOGY. Principles of climatology; physical bases for the differentiation of climatic types; description and interpretation of climatic regions. Prerequisite: 100 or consent of instructor.
- 411-4. URBAN GEOGRAPHY. The urban population: environment, development, and distribution; geographic factors related to the origin, structure, and functions of urban centers. Prerequisites: 100, 101, 210, or consent of instructor.
- 413-3 to 4. GEOGRAPHY OF THE CARIBBEAN LANDS. A regional approach

- to the study of the lands bordering the Caribbean. Appraisal of the natural-resource base of the various countries. Prerequisite: 100.
- 416-4. CARTOGRAPHY. Map-making and graphics: compilation, design, and reproduction. Particular attention to cartographic representation of quantitative data. Laboratory fee.
- 417-3. AIR PHOTO INTERPRETATION. Techniques in the use of air photos as source material for research in the physical and social sciences. Laboratory. Prerequisite: 312 or consent of instructor.
- 420-4. GEOGRAPHY OF AFRICA. A regional study of the continent. Patterns of climate, soils, minerals, vegetation, and relative location to be woven together with the agricultural, economic, and industrial features into the regional framework of Africa. Prerequisite: 100 or consent of instructor.
- 430-4. PHYSIOGRAPHIC PROVINCES OF NORTH AMERICA. (Same as Geology 430.) Designed to give the students an appreciation of the evolution of land forms in the physiographic provinces of North America; to explain the surface features in a landscape; and to interpret the human drama related thereto. Prerequisites: 100, 101, 210, and advanced standing.
- 431-4. GEOMORPHOLOGY. (Same as Geology 431.) A study of landforms, relating topographic features to the underlying rocks and structure and to processes of erosion, deposition, and earth movements. Prerequisite: 100 or Geology 220.
- 435-4. GEOGRAPHY OF LANDFORMS. Aims at developing concepts of objective landform description. Using this approach, the world distribution of landforms is examined with special emphasis on the landforms of the United States. A short research paper is normally required. Prerequisite: 101.
- 436-3. PLANT GEOGRAPHY. A world survey of natural areas of vegetation. Evolution of floras and present distribution. Prerequisites: Botany 101, 202, 203, or consent of instructor.
- 440-2 to 8. READINGS FOR MAJORS. Supervised readings for geography majors. Prerequisite: advanced standing and consent of chairman.
- 444-4. POLITICAL GEOGRAPHY. An examination of principles of political geography followed by an analysis of the world pattern of political organization by regions. Prerequisite: at least three courses in geography and completion of university social science requirement.
- 455-4. GEOGRAPHY OF POPULATION. Study of the geographic significance of population numbers, characteristics, and change throughout the world and the relationships between population and economic resources. Emphasis on assessing possible causes and effects of population distribution. Study of data sources and techniques of measurement and mapping. Prerequisites: 13 hours of geography including Geography 100 and 210 or consent of instructor.
- 470-4. URBAN PLANNING. (Same as Government 470.) An interdepartmental course in the basic problems of planning in the urban community. The course includes the administrative and physical principles involved in the planning of urban land use. Emphasis is upon research techniques, design principles, and governmental instrumentalities in the planning process. Prerequisite: consent of instructor.
- 500-4. GEOGRAPHIC TECHNIQUES I. Field experience in the techniques of

- observation, mapping, interview, and analysis as applied in geography.
- 501-4. GEOGRAPHIC TECHNIQUES II. Introduction to and appraisal of library resources and bibliographical aids. Preparation and organization of professional reports and their evaluation. Individual projects.
- 505-4. ADVANCED RESEARCH TECHNIQUES. Concern is centered on the application of quantitative techniques to specific geographic research problems. Exploration of new applications and new techniques is encouraged. Prerequisites: 500 and Mathematics 410 or equivalent.
- 511-4. PHILOSOPHY OF GEOGRAPHY. The nature of geography. Current trends in the field, present-day geographers, and schools of thought. Geography's place among all disciplines.
- 520-2 to 8. SEMINAR IN PHYSICAL GEOGRAPHY.
- 521-2 to 8. SEMINAR IN ECONOMIC GEOGRAPHY.
- 522-2 to 12. SEMINAR IN REGIONAL GEOGRAPHY.
- 523-4. SEMINAR IN CARTOGRAPHY.
- 524-2 to 8. SEMINAR IN CULTURAL GEOGRAPHY.
- 530-2 to 10. INDEPENDENT STUDIES IN GEOGRAPHY.
- 599-3 to 9. THESIS.

GEOLOGY

Professor Fred Donald Bloss, Ph.D. (Chicago)	1957
Associate Professor Stanley E. Harris, Jr., Ph.D. (Iowa), Chairman	1949
Associate Professor David Nicol, Ph.D. (Stanford)	1958
Assistant Professor Dewey Harold Amos, Ph.D. (Illinois)	1955
Assistant Professor Frank James Bell, M.S. (Nebraska)	1957

SUGGESTED CURRICULUM IN GEOLOGY

The following curriculum leads to the Bachelor of Arts degree with a major in geology in the College of Liberal Arts and Sciences.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)	37
<i>Requirements in the Department of Geology</i>	50
Geology 220, 221, 302, 310, 405, 425, 431	30
Geology 311, 312, 315, 426, 427 (any 3)	12
Geology electives to complete 50 hours	8
<i>Related Requirements for the Major</i>	35
Chemistry 111, 112, 113	15
Mathematics 111, 112, 113	15
Physics	5
The foreign language must be German, Russian, or French.	0
<i>Duplications of Requirements</i>	-12
The Related Requirements for the Major also satisfy 12 hours	

of General Degree Requirements. To avoid counting these hours twice in the total, they are deducted here.	
<i>Electives</i>	11
<i>Total</i>	192

It is recommended that students majoring in geology should minor in chemistry, mathematics, physics, or zoology. A minor in some other area should be approved by the department.

An understanding of geology requires a knowledge of the basic sciences. Thus a year's sequence of chemistry and mathematics and at least one term of physics and biology are considered a minimum; additional work in one or more of these fields will be necessary to support specialties such as mineralogy, petrology, economic geology, geophysics, and paleontology. A summer field course in geology should be taken between the junior and senior years. Preparations for a professional career usually require graduate work.

A minor in geology consists of 24 hours determined by consultation with the department's major adviser.

COURSE DESCRIPTIONS

- 100-4. PRINCIPLES OF GEOLOGY. A study of earth materials, geologic processes, and earth history. Stress upon the common rocks and minerals, erosional and depositional processes, volcanism, and formation of mountains; development of life forms, and the changing face of the earth; application to understanding the landscape, the search for oil and mineral resources, engineering construction. Laboratory.
- 220-5. PHYSICAL GEOLOGY. A study of the principal minerals and rocks of the earth's crust, emphasizing origin and identification; the physical processes active in producing the surface features of the earth. Laboratory and field trips required.
- 221-5. HISTORICAL GEOLOGY. Presenting in chronological order the procession of physical and biotic changes through which the earth has passed. Includes the physical history and evolution of life forms as evidenced by fossil records. Laboratory. Prerequisite: 100 or permission of instructor, elementary course in zoology or botany recommended.
- 302-4. STRUCTURAL GEOLOGY. A study of the forces involved in the deformation of the earth's crust, with special emphasis on the recognition, interpretation, and illustration of the resultant geologic structures. Laboratory. Prerequisite: 220, 221.
- 310-4. CRYSTALLOGRAPHY. The study of morphological crystallography including crystal symmetry, Hermann-Mauguin symbolism for the crystal classes, and solution of problems by means of the stereographic projection. Prerequisite: Trigonometry.
- 311-4, 312-4. DETERMINATIVE MINERALOGY. The study of the non-silicate and silicate minerals including the influence of crystal chemistry upon

- their physical and chemical properties. Laboratory practice in chemical determination and sight identification. Prerequisites: 310, Chemistry 111, Corequisite: Chemistry 112.
- 315-4. PETROLOGY. A study of the characteristics and classification of rocks, their origin and geologic distribution. Laboratory. Prerequisite: 220.
- 320-4. ECONOMIC GEOLOGY. Study of the world's larger mining districts and the economics and political importance of their geological resources.
- 401-4. ADVANCED GENERAL GEOLOGY. Deals with certain broader problems of geology: earthquakes, volcanism, submarine canyons, coral islands, mountain building. Laboratory. Prerequisites: 220, 302.
- 405-3. MAP AND AIR PHOTOS. Interpretation and use of air photos in geologic mapping; interpretation and construction of geologic maps, such as areal, structure, isopach, paleogeologic. Laboratory. Prerequisites: 221, 302, 431.
- 410-4. STRATIGRAPHY AND SEDIMENTATION. The features of sedimentary rocks and their processes of origin and diagenesis; the classification of stratigraphic units, methods of correlation, and paleogeologic reconstruction. Laboratory. Prerequisites: 220, 221.
- 415-4. OPTICAL MINERALOGY. The optical properties of minerals and the use of the petrographic microscope for identification by the immersion method and by thin section. Laboratory. Prerequisites: 310.
- 416-4. X-RAY CRYSTALLOGRAPHY. Identification of unknown crystalline materials and determination of lattice parameters by X-ray techniques. Prerequisite: 310 or consent of instructor.
- 420-3, 421-3, 422-3. GEOLOGY OF PETROLEUM. A sequence of courses considering the geological occurrence of petroleum, including origin, migration, and accumulation; a survey of exploration methods and production problems and techniques. Laboratory study applies geological knowledge to the search for and production of petroleum. Laboratory. Prerequisites: 221, 302.
- 425-5, 426-4, 427-4. PALEONTOLOGY I, II, and III. 425 is a survey of the important invertebrate phyla and their fossil representatives; 426 the mollusca, arthropoda, brachiopoda, and echinodermata; 427 the protozoa, porifera, coelenterata, bryozoa, and other minor groups. Includes classification, evolution, paleoecology, and geographic and stratigraphic distribution. Laboratory. Prerequisites: 221, 425, Zoology 100. Courses to be taken in sequence.
- 430-4. PHYSIOGRAPHIC PROVINCES OF NORTH AMERICA. (Same as Geography 430.) Designed to give the student an intelligent appreciation of the evolution of land forms in the physiographic provinces of North America; to explain the surface features in a landscape; and to interpret the human drama related thereto. Prerequisite: 220 or Geography 100.
- 431-4. GEOMORPHOLOGY. A study of land forms, relating topographic features to the underlying rocks and structure and to processes of erosion, deposition, and earth movements. Prerequisite: 220 or Geography 100.
- 440-1 to 4. INDEPENDENT STUDY. Prerequisites: 220, 221, advanced standing.
- 450-9. FIELD GEOLOGY. A field mapping course including problems in stratigraphy, structure, paleontology, physiography, and economic geology. Requires a written geologic report. Consult departmental office for dates, cost, and equipment needed. Prerequisite: 302.

Courses on the 500 level are for graduate students only.

- 510-3, 511-3, 512-3. **STRATIGRAPHY.** (Paleozoic, Mesozoic, Cenozoic.) Character, chronologic sequence, correlation, time relations, facies analysis and comparison of rock and biostratigraphic units of selected regions throughout the world with emphasis on North America. Laboratory problems involving stratigraphic interpretation from maps and air photos, construction of stratigraphic sections, facies maps, and faunal analysis. Field trip and written report required. 2 lectures, 1 laboratory. Prerequisites: 302, 425, 426.
- 515-4, 516-4, 517-4. **MINERAL DEPOSITS.** (Principles, Metallics, Non-metallics.) Principles of mineral deposition and genesis, and the origins and geologic settings of the important mineral deposits of the world. Laboratory. Prerequisites: 302, 310.
- 520-4. **IGNEOUS PETROLOGY.** Physical chemistry, petrographic classification, and genetic relationships of the igneous rocks. Prerequisites: 310, 415, or equivalent.
- 521-4. **METAMORPHIC PETROLOGY.** Physical chemistry, petrographic classification, and genetic relationships of the metamorphic rocks. Prerequisites: 310, 415, or equivalent.
- 522-4. **SEDIMENTARY PETROLOGY.** Petrographic classification and origin of sedimentary rocks. Prerequisites: 310, 415.
- 528-3. **INTRODUCTION TO MICROPALAEONTOLOGY.** The study of Foraminifera and Ostracoda is emphasized, but a survey of microscopic fossil organisms and skeletal elements of megafossils is included. Laboratory work in techniques of collecting and preparation and methods of study of microfossils. Prerequisite: 426.
- 540-1 to 9. **ADVANCED STUDIES.**
- 541-1 to 9. **RESEARCH.**
- 599-3 to 9. **THESIS.**

GOVERNMENT

Professor Orville Alexander, Ph.D. (Iowa), Chairman	1938
Professor Frank L. Klingberg, Ph.D. (Chicago)	1946
Professor Robert A. McGrath, Ph.D. (Iowa)	1949
Professor Ward M. Morton, Ph.D. (Texas)	1949
Professor Willis G. Swartz, Ph.D. (Iowa)	1930
Professor Max Wesley Turner, Ph.D. (Iowa)	1947
Associate Professor Earl Hanson, Ph.D. (Illinois)	1960
Associate Professor Irving Howards, Ph.D. (Wisconsin)	1957
Associate Professor Horace B. Jacobini, Ph.D. (Kansas)	1957
Associate Professor David T. Kenney, Ph.D. (Illinois)	1951
Associate Professor Randall H. Nelson, Ph.D. (Michigan)	1955
Associate Professor John S. Rendleman, J.D. (Illinois)	1951
Associate Professor Marian E. Ridgeway, Ph.D. (Illinois)	1952
Associate Professor M. M. Sappenfield, Ph.D. (Illinois)	1954

Associate Professor William O. Winter, Ph.D. (Michigan)	1950
Assistant Professor William Hardenbergh, Ph.D. (Illinois)	1960
Assistant Professor Egon Kamarasy, D.Pol. (Budapest)	1959
Assistant Professor Elmo M. Roberds, Ph.D. (Chicago)	1961
Instructor Jean M. Dannelson, M.A. (Southern Illinois)	1959

Visiting Professor Clarence A. Berdahl, Ph.D. (Illinois)	1958-62
Visiting Professor Nobushigi Ukai, D.J. (Tokyo)	1960-61
Visiting Professor Gilbert G. Lentz, Ph.D. (Illinois)	1961-62
Lecturer David Frier, M.A. (Southern Illinois)	1957-62
Lecturer Manfred Landecker, M.A. (Johns Hopkins)	1959-62
Assistant Instructor Charles H. Winslow, B.A. (Indiana)	1961-62

An undergraduate major for a student in the College of Education consists of thirty-six hours, and forty-two hours for a student in the College of Liberal Arts and Sciences. Twenty-four hours are required for a minor in either college. A major or minor is recommended for persons planning to teach civics or government courses, and for those planning to qualify for the study of law or for public service. Students majoring in government are urged to take as much work as possible in other social science departments, with at least one minor in a related field. Students planning to take graduate work in government beyond the master's degree should acquire a reading knowledge of both French and German.

SUGGESTED CURRICULA IN GOVERNMENT

The following curriculum leads to the Bachelor of Arts degree with a major in government in the College of Liberal Arts and Sciences.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)	37
<i>Requirements in the Department of Government</i>	42

Government electives to total at least 42 hours are required.

Three recommended sequences follow:

101, 231, 232, 305, 360, 370, 380, 390, 392, 420, 471,
472, 495, 496 (43)

Specialization in International Affairs: 101, 231, 232,
243, 363, 370, 371, 385, 390, 392, 453, 456, 457, 458,
459, 460, 471, 472, 475, 480 (63)

Specilization in Public Administration: 101, 231, 232,
305, 315, 340, 360, 410, 420, 432, 434, 435, 436, 438,
440, 461, 462, 463, 464, 466, 467, 468, 469, 470, 495,
496 (82)

DEPARTMENT OF GOVERNMENT	57
<i>Electives</i>	42
<i>Total</i>	192

The curriculum leading to the Bachelor of Science in Education degree with a major in government includes 36 hours selected from the following *Recommended Courses for the Major*:

Government 101, 231, 232, 243, 305, 315, 330, 360, 370, 371, 379, 380, 385, 390, 420, 466, 467, 472, 495, 496

Other requirements for the degree are given in the College of Education bulletin. (See page ii of this bulletin.)

COURSE DESCRIPTIONS

- 101-5. PROBLEMS OF AMERICAN DEMOCRACY. A general survey of government including national and state constitutional principles as required by Illinois law. Meets the social science and American government requirements. When offered in extension this course carries only four hours credit.
- 231-5. AMERICAN NATIONAL GOVERNMENT. A survey covering the structure, functions, and principles of national government. Also meets social science and American government requirements. Prerequisite: 101.
- 232-5. STATE AND LOCAL GOVERNMENT. A survey of the structure and functions of American state and local government. Prerequisite: 101.
- 243-3. INTRODUCTION TO AMERICAN FOREIGN POLICY. An introductory course dealing with the significance of foreign policy to American citizens. Prerequisite: 101.
- 300-4. AMERICAN GOVERNMENT. An advanced course to satisfy the American government requirements of the College of Education. Deals with the structure and functions of national, state, and local government. Not open to those who have had 101 or 231.
- 305-5. DEVELOPMENT OF THE AMERICAN CONSTITUTION. The evolution of the United States constitutional system. Recommended for pre-law students. Prerequisite: 101 or 231.
- 315-3. ADMINISTRATION OF JUSTICE. The organization and work of the American judicial system. Recommended for prelaw students. Prerequisite: 101 or 232.
- 321-1 to 6. READINGS IN GOVERNMENT. Consent of instructor required.
- 330-2. ILLINOIS GOVERNMENT. The development and functioning of government in Illinois. Prerequisite: 101 or 231.
- 340-3. THE LEGISLATIVE PROCESS. A study of the principles, organization, and work of American legislative bodies. Prerequisite: 101 or 231.
- 360-5. PUBLIC ADMINISTRATION. Principles and problems of administration on the national, state, and local level. Prerequisite: 101 or 231.
- 361-3. PROBLEMS IN PUBLIC ADMINISTRATION AND POLICY FORMATION. A study of various problems in public administration and policy, primarily as they appear in actual case situations. This course is designed for those who do not intend to concentrate in public administration. Prerequisite: 360 or consent of instructor.

- 363-3. UNITED STATES-LATIN AMERICAN RELATIONS. A study of the governmental relations between the United States and the various nations of Latin America. Prerequisite: 231.
- 370-3. INTERNATIONAL RELATIONS. A study of world politics—the causes of international conflict and the conditions of peace. Prerequisite: 101.
- 371-4. PROBLEMS OF AMERICAN FOREIGN POLICY. An analysis of selected problems in the field of American foreign policy. Prerequisite: 231 or 243.
- 379-3. POLITICAL PARTIES II. A study of the historical development of American political parties. Prerequisite: 101 or 231.
- 380-3. POLITICAL PARTIES. The development and work of American political parties. Prerequisite: 101 or 231.
- 385-3. CONTEMPORARY POLITICAL “ISMS.” An advanced survey of recent political systems: Socialism, Communism, Pluralism, Fascism, Nationalism. Prerequisite: 101 or 231.
- 390-5. COMPARATIVE GOVERNMENT. A survey of the principles and techniques of comparative government and their application to the political institutions of modern states. Prerequisite: 101.
- 392-3. COMPARATIVE GOVERNMENT (LATIN AMERICAN). A comparative study of the political systems of Latin American republics, with special attention given to Mexico and Argentina. Prerequisite: 101 or 231.
- 398-2. GOVERNMENT AND LAW. Techniques of law (classification, rights, and duties). Legal personality, public law and private law, criminal law, juristic acts. Property, possession and procedure. Prerequisite: 231.
- 406-4. THE AMERICAN CHIEF EXECUTIVE: PRESIDENT AND GOVERNOR. A study of the origin and background of the presidency and the governorship, qualifications, nomination and election, succession and removal, the organization of the executive branch, and the powers and functions of the president and governor. Prerequisites: 231 and 232.
- 410-5. LABOR AND POLITICS. A political history of the American labor movement from its early nineteenth-century origins to the present day. Attention is given to the political philosophy and practice of labor unions. Prerequisite: 231.
- 415-3. POLITICAL BEHAVIOR. An analysis of the nature of public opinion and methods of influencing political behavior. Major attention given to studying the basic psychological attitudes and behavior. Prerequisite: 231.
- 420-3. PRESSURE GROUPS AND POLITICS. An analysis of interest groups and their techniques of political propaganda. Prerequisite: 101 or 231.
- 432-3. GOVERNMENT AND NATURAL RESOURCES. A study of the administrative and policy problems in the development of multiple purpose conservation programs by the national government. Prerequisite: 231 or consent of instructor.
- 434-3. GOVERNMENT AND AGRICULTURE. A historical and contemporary survey of the role of agriculture in politics, the major and minor farm parties and pressure groups, the elements of the current “farm problem,” and the influence of agriculture in public agencies and the formation of public policy. Prerequisite: 231.
- 435-4. GOVERNMENT AND BUSINESS. A historical study, with contemporary emphasis upon relations between government and economic institutions. Prerequisite: 231 or consent of instructor.
- 436-3. GOVERNMENT AND LABOR. (Same as Economics 436.) A study of

- labor relations and legislation considering both constitutional and economic aspects. Prerequisite: 101, Economics 205, or consent of instructor.
- 438-4. SOCIAL WELFARE LEGISLATION. The Social Security Act and other legislation of major significance for the welfare and maintenance of the family, the handicapped, children, and other special groups. Their relationship to the legal structure of federal, state, county, township, and municipal welfare facilities and institutions with indications of economic and social consequences. Prerequisite: 101 or consent of instructor.
- 440-5. PUBLIC PERSONNEL ADMINISTRATION. A survey of the methods and functions of modern public personnel administration. Prerequisite: 360.
- 441-4. PHILOSOPHY OF POLITICS. (Same as Philosophy 441.) Some of the central problems of modern political life, such as sovereignty, world government, authority and consent, the relations of economics and social studies to political theory. Prerequisite: Philosophy 140 or 340 or consent of instructor.
- 452-4. GOVERNMENTS AND POLITICS OF SUB-SAHARA AFRICA. A study of the governments and politics of the former and present British and French territories: Ghana, Nigeria, Kenya, Guinea, Congo, Senegal, etc. Prerequisite: 390 or consent of instructor.
- 453-3. SOVIET RUSSIA AND THE COMMUNIST STATES OF EASTERN EUROPE. An intensive study and research exercise in the government and politics of the Soviet Union. Prerequisite: 390 or consent of instructor.
- 454-8. DEVELOPMENT OF GERMAN DEMOCRACY. Offered co-operatively by Southern Illinois University and the University of Hamburg. Involves a summer's residence in Hamburg, Germany, and study under professors of the two co-operating universities. Prerequisite: consent of the American professor.
- 455-4. MAJOR GOVERNMENTS OF WESTERN AND CENTRAL EUROPE. A comparative study of the political systems of the major countries of western and central Europe. Prerequisite: 390 or consent of instructor.
- 456-4. GOVERNMENT OF THE BRITISH COMMONWEALTH AND EMPIRE. A survey of the governmental institutions and practices within the British Empire, with particular attention to the political systems of Australia, Canada, and South Africa. (The governments of India and Pakistan are treated in 460.) Prerequisite: 390 or consent of instructor.
- 457-4. GOVERNMENT AND POLITICS IN THE NEAR AND MIDDLE EAST. Iran, Iraq, Syria, Lebanon, Egypt, Jordan, Saudi Arabia, etc. Prerequisite: 390 or consent of instructor.
- 458-4. GOVERNMENT AND POLITICS OF SOUTHEAST ASIA. Burma, Thailand, Malaya, Indo-China, Indonesia, Philippines. Prerequisite: 390 or consent of instructor.
- 459-4. GOVERNMENT AND POLITICS OF THE FAR EAST. China, Japan, Korea, Formosa. Prerequisite: 390 or consent of instructor.
- 460-4. GOVERNMENT AND POLITICS OF SOUTH ASIA. India, Pakistan, Ceylon. Prerequisite: 390 or consent of instructor.
- 461-4. THEORY OF PUBLIC ADMINISTRATION. Analysis of various theoretical approaches to public administration with emphasis on recent American literature in this field. Prerequisite: 360 or consent of instructor.

- 462-3. ADMINISTRATIVE ORGANIZATION. A survey of the reorganization movement as a whole in the United States with emphasis on recent national, state, and local developments. Prerequisite: 360 or consent of instructor.
- 463-3. PROBLEMS OF EXECUTIVE MANAGEMENT. Principles of organization; techniques of conducting organization and procedural studies; work simplification; problems of the executive. Prerequisite: 360.
- 464-3. REGULATORY ADMINISTRATION. A study of the work of the major regulatory commissions of the national government. Prerequisite: 360 or consent of instructor.
- 466-3. STATE GOVERNMENT AND ADMINISTRATION. Leading problems of government and administration of American states. Prerequisite: 232.
- 467-3. MUNICIPAL GOVERNMENT AND ADMINISTRATION. Development and functioning of city government in the United States. Prerequisite: 232.
- 468-3. COUNTY GOVERNMENT IN THE UNITED STATES. An examination of the traditional rural county and township, the growing number of metropolitan counties, and the associated growth of special districts in the United States. Prerequisite: 232.
- 469-3. ADMINISTRATION OF STATE AND LOCAL FINANCE. An examination of the administrative problems connected with local and state revenues and expenditures in the United States. Prerequisite: 232.
- 470-4. URBAN PLANNING. (Same as Geography 470.) An interdepartmental course in the basic problems of planning in the urban community. The course includes the administrative and physical principles involved in the planning of urban land use. Emphasis is upon research techniques, design principles, and governmental instrumentalities in the planning process. Prerequisite: consent of instructor.
- 471-4. THE ORGANIZATION AND ADMINISTRATION OF AMERICAN FOREIGN POLICY. An advanced course. Prerequisite: 243 or 371.
- 472-4. INTERNATIONAL GOVERNMENT. Development and organization of international governmental and administrative systems, with emphasis on the United Nations. Prerequisite: 370.
- 475-4. INTERNATIONAL LAW. Rules and practices governing the nations in their relations in peace and war. Prerequisite: 370.
- 478-4. INTERNATIONAL POLITICS. A study of the interplay of political forces in the international community. Particular emphasis will be placed on war-time diplomacy, peace treaties, the alignments and conflicts of power in the post-war period. Prerequisite: 370 or consent of instructor.
- 480-4. THE PACIFIC AND THE FAR EAST. Political and strategic problems in this area. Prerequisite: 370 or History 368.
- 484-4. ANCIENT AND MEDIEVAL POLITICAL THEORIES. Outstanding political theories of the ancient and medieval periods, including theories of Aristotle, Plato, Cicero, St. Augustine, and Thomas Aquinas. Prerequisite: 6 hours of government.
- 485-4. MODERN POLITICAL THEORIES. Important political theories from the Renaissance to the end of the eighteenth century, including the theories of Machiavelli, Hobbes, Rousseau, Locke, and Burke. Prerequisite: 6 hours of government.
- 487-4. AMERICAN POLITICAL IDEAS. A historical study of the political

ideas of leading American statesmen and publicists, and their resulting influence upon our governmental system. Prerequisite: 305 or 385.

- 488-3. RECENT POLITICAL THEORY I. The outstanding Anglo-American liberal political theorists from John Stuart Mill to the present. Prerequisite: 305 or 390.
- 489-3. RECENT POLITICAL THEORY II. The outstanding "scientific" political theorists from Karl Marx to the present. Prerequisite: 385 or 390.
- 490-3. RECENT POLITICAL THEORY III. The outstanding idealistic and nationalistic political theorists from Hegel to the present. Prerequisite: 385 or 390.
- 495-4. CONSTITUTIONAL LAW I. Constitutional law of the United States with emphasis upon cases dealing with the framework of our federal system. Prerequisite: 231.
- 496-4. CONSTITUTIONAL LAW II. Constitutional law of the United States with emphasis upon cases dealing with the framework of American liberties. Prerequisite: 231.
- 497-4. ADMINISTRATIVE LAW. Law as it affects public officials in carrying out the rights, duties, and necessary functions of the public office. Prerequisite: 360.
- 498-4. JURISPRUDENCE. (Theories of Law.) Major schools in legal thinking. Positive law and natural law. Idea of justice and concept of natural rights. Prerequisite: 231.
- 499-2. RESEARCH METHODS. Practical training in research and writing techniques in the field of government. Bibliographical materials, footnotes, use of law library facilities, and government documents. Required of all beginning graduate students.

Courses on the 500 level are for graduate students only.

- 501-526. SEMINARS. Preparation and presentation, for criticism, of assigned research papers. Hours of credit, 2 to 9 each, with no more than 4 in any one in any quarter.
501. SEMINAR IN CONTEMPORARY LEGISLATION. Prerequisite: 340 or consent of instructor.
502. SEMINAR IN GOVERNMENTAL PROBLEMS. Prerequisite: consent of instructor.
503. SEMINAR IN PRESSURE GROUPS. Prerequisite: 420 or consent of instructor.
505. SEMINAR IN POLITICAL PARTIES. Prerequisites: 379, 380, 420, or consent of instructor.
508. SEMINAR IN INTERNATIONAL RELATIONS. Prerequisites: 370, 472 or 475, or consent of instructor.
509. SEMINAR IN INTERNATIONAL ORGANIZATION. Prerequisite: 472 or consent of instructor.
510. SEMINAR IN STATE GOVERNMENT. Prerequisite: 466 or consent of instructor.
511. SEMINAR IN LOCAL GOVERNMENT. Prerequisite: 467 or consent of instructor.
512. SEMINAR IN PUBLIC ADMINISTRATION. Prerequisite: 360 or consent of instructor.
513. SEMINAR IN CONSTITUTIONAL LAW. Prerequisite: 395 or consent of instructor.

515. SEMINAR IN COMPARATIVE CONSTITUTIONS. Prerequisite: 390 or consent of instructor.
516. SEMINAR IN MUNICIPAL ADMINISTRATION. Prerequisite: 467 or consent of instructor.
517. SEMINAR IN PROBLEMS IN POLITICAL THEORY. Prerequisite: consent of instructor.
520. SEMINAR IN AMERICAN FOREIGN POLICY. Prerequisite: 471 or consent of instructor.
- 521-1 to 12. READINGS IN GOVERNMENT. Supervised readings in selected subjects. Not more than 6 hours may apply toward the master's degree. Prerequisite: consent of instructor.
525. SEMINAR IN INTERNATIONAL LAW. Prerequisite: 475 or consent of instructor.
526. SEMINAR IN COUNTY GOVERNMENT. Prerequisite: 468 or consent of instructor.
- 530-4 to 12. INTERNSHIP IN PUBLIC AFFAIRS. Field work in the office of a governmental agency; city, county, state, national, or international. Under certain circumstances it might be in the office of a political party organization or in that of some organized pressure group. The type of internship and the place and organization in which it is taken must be mutually satisfactory to the student and the department. A paper in which the student correlates his academic knowledge with his practical experience is required. Prerequisite: consent of department.
- 595-2 to 4. INDIVIDUAL RESEARCH. Selection, investigation, and writing of a research topic under the personal supervision of a member of the departmental graduate staff. Prerequisite: 499 or consent of instructor.
- 598A-1, 598B-1, 598C-1. TEACHING GOVERNMENT. A seminar course devoted to the general and specific problems of teaching government on the college level. To be required of all graduate assistants who are given teaching assignments, and strongly recommended for other graduate students who contemplate teaching on the college level. Open to staff members.
- 599-2 to 9. THESIS. Prerequisite: 499 or consent of instructor.
- 600-1 to 48. DISSERTATION.

HEALTH SCIENCE

Students in the College of Liberal Arts and Sciences may major in health science. This program is interdepartmental. Professor Willard M. Gersbacher of the Department of Zoology is the co-ordinator for this program.

SUGGESTED CURRICULUM IN HEALTH SCIENCE

The following curriculum leads to the Bachelor of Arts degree with a major in health science in the College of Liberal Arts and Sciences.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)	37
<i>Requirements for the Major</i>	115
Chemistry 111, 112, 305	14
Government 101, 232, 360, 440	18
Health Education 300, 325, 355, 356	15
Mathematics 111, 112, 220	14
Microbiology 301	5
Physiology 209 or 315	5
Psychology 201, 305, 307, 432	16
Sociology 101, 335, 336	13
Zoology 100, 102, 103	15
<i>Duplication of Requirements</i>	-31
The courses listed above also satisfy 35 hours of general-degree and college requirements. These hours are deducted here to avoid counting them twice in the total.	
<i>Electives</i>	0
<i>Total</i>	192

Recommended electives for specialization in sanitation: Agricultural Industries 303; Animal Industries 231; Anthropology 110 or 207; Applied Science 101; Physics 101, 102 or 206, 207, 208; Microbiology 422, 423; Zoology 306 or 316, 310, 406; Government 466.

Recommended electives for specialization in public health laboratory: Botany 101; Chemistry 235, 306, 451, 452; Government 466; Microbiology 403, 422, 423, 425; Physiology 317, 433; Zoology 306 or 316.

HISTORY

University Professor E. G. Lentz, M.A. (Illinois), Emeritus (1950)	1914
Research Professor C. Harvey Gardiner, Ph.D. (Michigan)	1957
Professor Harold E. Briggs, Ph.D. (Iowa)	1945
Associate Professor Harry Ammon, Ph.D. (Virginia), Acting Chairman	1950
Associate Professor George L. Cherry, Ph.D. (Northwestern)	1947
Associate Professor Ping-Chia Kuo, Ph.D. (Harvard)	1959
Associate Professor William A. Pitkin, Ph.D. (Texas)	1945
Associate Professor John I. Wright, A.M. (Chicago)	1925
Assistant Professor Charles J. Pardee, A.M. (Chicago), Emeritus (1951)	1929

Assistant Professor Guenther Rothenberg, Ph.D. (Illinois)	1958
Lecturer Lee B. Kennett, M.A. (Mississippi)	1961-62
Lecturer Carl L. Schweinfurth, M.A. (Florida)	1959-62
Lecturer Ralph A. Stone, Ph.D. (Illinois)	1960-61
Lecturer Lonnie Royce Shelby, M.A. (Vanderbilt)	1961-62
Lecturer Mary Lou Taylor, M.A. (Washington University)	1961-62

Students who intend to make history their major field should confer with the representative of the department at the time of registration. Forty-two hours are required for a major in history in the College of Liberal Arts and Sciences. Thirty-six hours are required for a major in the College of Education. For a major in history, at least half of the work in history must be on the 300 and 400 levels, and care should be taken to distribute the work in the fields of American and European history. Twenty-four hours are required for a minor in history, and must include 101, 102, 103, 201, and 202. Students wishing to use a history minor in the College of Education should take twelve hours each in the foreign and American fields.

One year of work in a foreign language is required of history majors.

Two quarters of history 101, 102, 103 will meet the general education requirement except in the College of Education. Five hours of United States history are required for graduation in the College of Education. History 201 or 202 will meet this requirement.

SUGGESTED CURRICULUM IN HISTORY

The following curriculum leads to the Bachelor of Arts degree with a major in history in the College of Liberal Arts and Sciences.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)	37
<i>Requirements in the Department of History</i>	42
History 101, 102, 103, 201, 202, 452	22
History electives to complete 42 hours	20
<i>Duplication of Requirements</i>	-5
Five hours of general degree requirements are satisfied by history courses required for the major. These hours are deducted here to avoid counting them twice in the total.	
<i>Electives</i>	62
<i>Total</i>	192

COURSE DESCRIPTIONS

- 101-3, 102-3, 103-3. **SURVEY OF WESTERN CIVILIZATION.** Courses designed primarily for freshmen, as a survey of the development and evolution of civilization; the foundation for further courses in the field of history. One term devoted to each of the periods: ancient, medieval, and modern.
- 201-5. **THE UNITED STATES TO 1865.** Courses 201 and 202 designed to provide a general survey of the political, social, and economic development of the United States. Course 201 includes national and state constitutional principles as required by Illinois law. Prerequisite: sophomore standing.
- 202-5. **THE UNITED STATES SINCE 1865.** A continuation of 201. Either 201 or 202 to count toward graduation requirements in the College of Education. Prerequisite: sophomore standing.
- 301-3, 302-3. **HISTORY OF WARFARE. (TO 1815), (SINCE 1815).** These courses survey the main developments in the art of war from the Renaissance to the present and analyze the reciprocal relationship between the military establishment and the society of which it is a part.
- 304-3. **THE ANCIENT NEAR EAST.** Political, social, and religious history from the earliest times to the 4th Century B.C. Prerequisite: freshman survey.
- 305-3. **HISTORY OF GREECE.** Political, social, economic, and cultural development from the Aegean period to the Roman conquest.
- 306-3. **HISTORY OF ROME.** Political, social, and economic developments from the Etruscan period to the fall of the empire.
- 308-3. **HISTORY OF ILLINOIS.** The history of the state from 1818 to the present. Recommended for history majors and those who expect to teach in elementary schools.
- 311-3. **MEDIEVAL HISTORY.** Europe from the fall of Rome to the establishment of national monarchies.
- 312-3. **CENTRAL EUROPE IN THE 19TH CENTURY.** An analysis of the nationalist movements in Central Europe leading to the unification of Germany and Italy and the disintegrating tendencies in the Austro-Hungarian monarchy.
- 322-4, 323-4, 324-4. **ENGLISH HISTORY.** An introductory study of the institutional and cultural development of the English people from the earliest times to the present day. 322: Celtic Britain to 1603; 323: 1603-1815; 324: since 1815.
- 330-3. **THE REVOLUTION AND THE CONSTITUTION.** A study of the conflicting forces which produced the American Revolution, led to the creation of the federal union and shaped the early republic.
- 352-3. **COLONIAL LATIN AMERICA.** With a preliminary view of the major Indian cultures and the era of discovery and exploration, this survey emphasizes the political, economic, social, and cultural aspects of Latin-American life through the wars of independence.

- 353-3. INDEPENDENT LATIN AMERICA. A survey of historical patterns and problems in the national life of twenty American countries, from independence to the present.
- 354-3. LATIN AMERICA IN WORLD AFFAIRS. A survey of the international role of Latin America with emphasis on the economic, diplomatic, and military record from the Treaty of Tordesillas to membership in the United Nations.
- 365-4. HISTORY OF CHINESE CIVILIZATION. A study of the march of Chinese civilization from prehistoric times to the present, stressing social structure, government institutions, and intellectual movements.
- 367-3. INTRODUCTION TO FAR EASTERN CIVILIZATION. (Oriental Civilization I). A broad survey of Far Eastern history and culture up to the 19th century, using an interdisciplinary approach and stimulating a basic appreciation of the heritage, institutions, and problems of East Asia.
- 368-3. THE FAR EAST AND MODERN IMPERIALISM. Discussion of Far Eastern international relations against the background of modern imperialism, 1800-1914. Special attention given to American Far East policy and the role of Russia as an Asiatic power.
- 369-3. THE CONTEMPORARY FAR EAST. Rise of Communist China; problems of postwar Japan; issues of the cold war, underdeveloped economies, and political instability of new nations; study of great leaders of new Asia and their concepts of political and social change.
- 372-3. THE HISTORY OF RUSSIA TO 1905. A survey from earliest times to the Revolution of 1905. Social, economic, and political conditions under the Czars.
- 373-3. HISTORY OF RUSSIA SINCE 1905. A continuation of 372 surveying the last years of the Russian Empire, the Russian Revolution, and the U.S.S.R.
- 400-3 to 6. TEACHERS' WORKSHOP IN CURRENT HISTORY. A series of lectures, readings, discussions, and projects designed to aid the teacher in understanding and interpreting some of the major problems of present-day society.
- 401-3. THE OLD SOUTH. An intensive study of the social, economic, political, and cultural development of the "Old South" to the Civil War, to bring out the distinctive culture and problems of the section. Prerequisite: 201.
- 402-3. THE NEW SOUTH. The Civil War, political and economic reconstruction, and problems of the "New South." Prerequisite: 202 or 401.
- 405-3. CIVIL WAR AND RECONSTRUCTION. Emphasis upon the clash of national and sectional interests; economic, political, and military aspects of the conflict; course and consequences of reconstruction.
- 410-2 to 5. SPECIAL READINGS IN HISTORY. Supervised readings for students with sufficient background. Registration by special permission only. Offered on demand.
- 411-3, 412-3, 413-3. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES. (1607-1830, 1830-1900, 1900 to the present.) The development of American society and a study of various types of economic, social, and political thought that have influenced it.
- 415-3. THE AGE OF THE RENAISSANCE. A treatment of the Italian Renaissance and its relationship to the political, economic, social, and cultural changes in the countries of northern and western Europe.

- 416-3. THE AGE OF THE REFORMATION. A study of the reform movement which divided the Christian Church into Protestantism and Catholicism, with a treatment of the Counter Reformation.
- 417-3. THE BRITISH COMMONWEALTH OF NATIONS. The evolution and present status of the Commonwealth of Nations and its self-governing and dependent units with an emphasis on the impact of the social, economic, and political ideas upon the pattern of control and development during each stage of growth.
- 418-3. ENGLISH CONSTITUTIONAL HISTORY. The evolution and functioning of the English legislative, administrative, and judicial systems with an emphasis on the ideas and principles that determined growth during each age.
- 419-3. ENGLISH CULTURE IN THE AGE OF AMERICAN COLONIZATION. An analysis of the English social, economic, political, and religious institutions and ideas which provided the foundation for the growth of American civilization.
- 420-3. THE FRENCH REVOLUTION. A sketch of the passing of feudalism in France, the background and development of the revolutionary movement, and the Napoleonic period.
- 425-3. AMERICAN COLONIAL HISTORY. Founding of the American colonies, both French and English, and the development of social, political, economic, and cultural institutions through the Revolutionary period.
- 435-3, 436-3, 437-3. RECENT UNITED STATES HISTORY. A sequence covering the major problems and trends from the Civil War to the present. Courses may be taken separately. Periods covered: 435, 1865-1898; 436, 1898-1928; 437, 1928-present.
- 440-3. AMERICAN DIPLOMACY TO 1898. A study of the important treaty relations of the United States, and a general consideration of American foreign policies.
- 441-3. AMERICAN DIPLOMACY SINCE 1898. A continuation of 440.
- 442-3, 443-3, 444-3. HISTORY OF THE WEST. A series of three courses providing an intensive study of the Colonial, Trans-Alleghany and Trans-Mississippi frontiers and showing the influences of the West in the various periods in United States history. Prerequisites: 201, 202.
- 449-3. DEVELOPMENT OF AFRO-ASIAN NATIONALISM. The reaction of the non-Western world to the impact of colonial control, industrialization, and modernization. Detailed study of the rise of national movements, the winning of independence, and the relation of Afro-Asian nationalism to the Communist World.
- 450-3. EUROPE SINCE 1914. Brief review of causes and results of World War I. Emphasis upon the League of Nations, war debts, disarmament, causes of World War II, Korean conflict, and United Nations.
- 451-3. HISTORIOGRAPHY. Development of history as a written subject, including works and philosophy of the various outstanding historians in ancient, medieval, and modern periods.
- 452-3. HISTORICAL RESEARCH AND THESIS WRITING. The rules of historical research studied and applied to a definite topic.
- 454-3. BIOGRAPHY IN AMERICAN HISTORY. Outstanding leaders and their contributions to the history of the United States. Attention to historical

- writers who specialize in biography. Prerequisite: a course in United States history.
- 455-3. HISTORY OF INNER-ASIAN RELATIONS. History of tribes, migrations, wars, and power politics in Central Asia and outlying areas of China, from Han times to the latest developments among national minorities astride the Sino-Soviet frontier.
- 470-3. ARGENTINA, BRAZIL, AND CHILE. A narrative and comparative study of the independent era of the history of the three leading states of South America.
- 471-3. MEXICO IN THE NINETEENTH CENTURY. Significant aspects of Mexican life from independence to the decline of the Diaz Era.
- 472-3. MEXICO IN THE TWENTIETH CENTURY. An analysis of the political, economic, diplomatic, social, and cultural forces in modern Mexican life.
- 473-3. THE CARIBBEAN AREA IN THE TWENTIETH CENTURY. An inquiry into the changing role of the political, economic, strategic, and cultural nature of this Mediterranean of the New World.
- 480-3. ROME: THE LATE REPUBLIC. The framework of the course is political, covering the years from 133 B.C. to A.D. 14. Attention is given also to Roman literature and culture, and to a broad view of the early empire (including Palestine) in the years immediately preceding the Christian Era.
- 481-3. ROME: THE EARLY EMPIRE. The civilization of the first two centuries of the Roman Empire. Against a background of general political history, attention is directed to the philosophical schools, pagan religions, and other factors affecting the rise and extension of Christianity.
- 485-3. GREEK CIVILIZATION. Development of the unique features of Greek thought (historical, religious, scientific, philosophical), art, literature, architecture, etc.
- 490-3. HISTORY IN THE SECONDARY SCHOOL. A comprehensive methods course for prospective teachers: history, government and civics, current events, economics, sociology, and geography; curriculum revision; grading of materials; classroom methods; teacher preparation; professional publications. Attention to the unified social science course.

Courses on the 500 level are for graduate students only.

- 500-3 to 9. HISTORY SEMINAR. Research methods applied to the various history fields.
- 510-2 to 5. READINGS IN HISTORY. Registration by special permission only.
- 515-3. CURRENT UNITED STATES HISTORY AND PROBLEMS. A content and research course dealing with contemporary American affairs. Consists of textbook assignments, outside readings. Prerequisite: proper background.
- 516-5. STUDIES IN CONTEMPORARY EUROPE. A content and research course in European civilization since 1914 which stresses the rise of totalitarianism and the democratic crisis.
- 517-3. CONSTITUTIONAL HISTORY OF THE UNITED STATES AND PROBLEMS. A content and research course involving origin and development of the American Constitution, from English background, through the convention, to the present.

- 518-3. ENGLAND IN THE AGE OF THE "GLORIOUS REVOLUTION." An analysis of the ideas and forces that converted the English government into a liberal state with an emphasis on the concepts and principles later applied in the establishment of the American Constitution.
- 519-5. THE AGE OF JEFFERSON. Rise and development of Jeffersonian Democracy, 1790-1824, with emphasis upon social, economic, and political programs of Republicans and Federalists; the clash of mercantile and agrarian interests.
- 520-3. THE AGE OF CONSTANTINE. A study of fourth-century Rome. Particular attention is given to religious policy. Such problems as the religious persecution preceding Constantine, his conversion to Christianity, the reaction following his death, the final establishment of Christianity as the official religion of the Empire.
- 553-3. NEW VIEWPOINTS IN AMERICAN HISTORY. New interpretations and recent developments in the field of American history. Prerequisites: 201, 202.
- 590-1 to 6. INDIVIDUAL RESEARCH. The investigation of a research topic in history under the supervision of a member of the graduate staff in the particular field. By special arrangement.
- 599-3 to 9. THESIS.

INTER-AMERICAN STUDIES

On the undergraduate level, a major in inter-American studies leads to the Bachelor of Arts degree in the College of Liberal Arts and Sciences. This program is interdepartmental in nature under the direction of the Latin American Institute. No undergraduate minor is offered.

This course of studies is designed to meet the need for increasing concern with Latin America and the growing interest in the field. It is planned to provide students with a wide general background in the history, geography, economics, languages, and literature of Hispanic America. Special emphasis is placed upon achievement of sufficient knowledge of the Spanish language to make it an effective means of communication. This level of linguistic skill is essential to open the doors of cultural understanding and appreciation of Latin America to non-native speakers. Equal proficiency in Portuguese for those who wish to specialize in Brazilian studies will be sought.

The major in inter-American studies prepares the student to participate intelligently and effectively in business or government activities in Latin America or relating to Latin America or assists students to choose a field of specialization for research and teaching.

At the undergraduate level the curriculum is necessarily somewhat strictly prescribed. Although some choice may be allowed and certain variances permitted, requirements generally will include the following:

<i>General Degree Requirements.</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)	37
<i>Requirements for the Major in Inter-American Studies</i>	133
Anthropology 110 or 300 or 400, 307, 421, 422	14
Economics 205, 206, 315, 328	17
Foreign Languages	36
Spanish 201, 202, 203, 220-4, 311, 312, 313, 333	28
Spanish 315 or 351 or 415	3
Portuguese 100	5
Geography 100, 316, 413	13
Government 363, 370, 371, 392, 471 or 472 or 475	17
History 201, 202, 352, 353, 354	19
Philosophy 120, 121, 170, 441	11
<i>Duplication of Requirements</i>	-52
<p>Certain courses listed under Requirements for the Major also satisfy all of the College of Liberal Arts and Sciences Requirements and 15 hours of General Degree Requirements. These hours are deducted here to avoid counting them twice in the total.</p>	
<i>Electives</i>	3
<i>Total</i>	192

Students coming to Southern without any foreign language will be required to take the sequence 101, 102, 103, 101c, 102c, and 103c in Spanish as prerequisites to the specified courses in the language. If their special interests demand, they should expect also to take such additional courses as desired in psychology, sociology, economics, or business administration. These courses are described under the departmental entries in this bulletin and in the School of Business bulletin.

For further details, refer to the University Institute's bulletin. (See page ii of this bulletin.)

MATHEMATICS

Professor Amos Black, Ph.D. (Cornell)	1948
Professor John W. Hamblen, Ph.D. (Purdue)	1961
Professor Carl E. Langenhop, Ph.D. (Iowa State)	1961
Professor Wilbur C. McDaniel, Ph.D. (Wisconsin)	1939
Professor Abraham M. Mark, Ph.D. (Cornell)	1950
Professor John M. H. Olmsted, Ph.D. (Princeton), Chairman	1960

Associate Professor F. González Asenjo, Ph.D. (La Plata)	1961
Associate Professor Elbert Fulkerson, M.A. (Illinois)	1932
Associate Professor Leslie D. Gates, Jr., Ph.D. (Iowa State)	1961
Associate Professor Dilla Hall, Ph.D. (St. Louis)	1924
Associate Professor Marian Moore, Ph.D. (Purdue)	1955
Associate Professor Louis D. Rodabaugh, Ph.D. (Ohio State)	1947
Associate Professor Thomas H. Starks, Ph.D. (Virginia Polytechnic Institute)	1961
Associate Professor Joseph C. Wilson, Ph.D. (Louisiana State)	1957
Assistant Professor James R. Boen, Ph.D. (Illinois)	1959
Assistant Professor Morton Roy Kenner, Ph.D. (Columbia)	1951
Assistant Professor Harold H. Lerch, Ed.D. (Illinois)	1960
Assistant Professor Paul E. Long, Ph.D. (Oklahoma State)	1961
Assistant Professor Michael Skalsky, D.N.Sc. (Göttingen)	1957
Assistant Professor Alice K. Wright, M.A. (Illinois), Emerita (1958)	1925
Instructor Imogene C. Beckemeyer, M.A. (Southern Illinois)	1950
Instructor John Samuel Brown, M.S. (Illinois)	1957
Instructor Joseph H. Crenshaw, M.S. (Illinois)	1958
Instructor Allan Jones, M.A. (Southern Illinois)	1958
Instructor James L. Slechticky, M.S. (Washington)	1958
Instructor Larry L. Wimp, M.A. (Missouri)	1954
<hr/>	
Lecturer Shirley Anne Bassler, M.S. (Southern Illinois)	1960-61
Lecturer Zamir Bavel, M.A. (Southern Illinois)	1955-62
Assistant Instructor Elsa Ford, B.A. (Lawrence)	1955-62

Students who take mathematics to satisfy part of the general requirement for a bachelor's degree may choose among several courses, depending upon their competence in mathematics and their interests. Mathematics 111 is recommended for students who have good competence in the material normally included in one and one-half years of high school algebra and one year of plane geometry. Students who demonstrate superior competence in the topics of high school mathematics may be allowed to start their university mathematics in courses 112 or 113. Students who do not have satisfactory competence in high school algebra and plane geometry should take 106. Special sections of 106 are designed for students who are planning to take 111. Only one of the 106 courses will be counted for credit and no credit will be given if 106 is taken after 111. Students who take 111 after 106 receive eight hours credit for the two courses.

Students in the College of Liberal Arts and Sciences or the College of Education may take majors or minors in mathematics.

SUGGESTED CURRICULA IN MATHEMATICS

The following curriculum leads to the Bachelor of Arts degree with a major in mathematics in the College of Liberal Arts and Sciences.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)	37
<i>Requirements in the Department of Mathematics</i>	42
Mathematics 111, 112, 113, 251, 252, 253 (a student need not take any of these in which he can demonstrate competence.)	27
Mathematics electives numbered 300 or above to com- plete at least 42 hours. (Recommended are 305, 306, 320, 330, 421, 422, 452, 453, 454.)	15
<i>Related Requirements for the Major</i>	5
Physics 206 or 211	
<i>Duplication of Requirements</i>	-12
The mathematics and physics required for the major also satisfy 12 hours of General Degree Requirements. To avoid counting these hours twice in the total, they are subtracted here.	
<i>Electives</i>	49
<i>Total</i>	192

Majors who are working to receive a teaching certificate are required to take 311, 320, either 321 or 313, 335, and 336.

Department of Mathematics minor requirements: 111, 112, 113, 251, or demonstrated competence; and at least five hours in mathematics courses beyond 251. Students who are working for a teaching certificate in mathematics will need eleven hours beyond 251, including Mathematics 320.

The curriculum leading to the Bachelor of Science in Education degree with a major in mathematics includes the following *Requirements for the Major*:

Mathematics 111, 112, 113, 251, 252, 253. (A student need not take any of these in which he can demonstrate competence.)	27
Mathematics 311, 320, 321 or 313, 335, 336	15
Physics 206 or 211	5
A reading knowledge of a foreign language	9

Department of Mathematics minor requirements: 111, 112, 113, 251, or demonstrated competence; and at least eleven hours in mathematics courses beyond 251, including 320.

COURSE DESCRIPTIONS

- 100-0. **ELEMENTARY MATHEMATICS.** Remedial and review work in elementary mathematics, including arithmetic and beginning algebra.
- 106-4. **GENERAL MATHEMATICS I.** Designed particularly for students who take mathematics to satisfy a graduation requirement. Does not count toward a major or minor in mathematics. Regular sections, designated in class schedules as 106a, include a careful study of the real number system in order to provide a better understanding of arithmetic and elementary algebra. Sections designated as 106c cover a regular course in intermediate algebra. Prerequisite: two semesters of high school mathematics and satisfactory score on placement test, or Mathematics 100.
- 107-4. **GENERAL MATHEMATICS II.** Continuation of 106. Does not count on a major or minor in mathematics. Topics from algebra and geometry. Prerequisite: 106.
- 111-5, 112-5. **ELEMENTARY ANALYSIS I, II.** Beginning sequence for mathematics majors and minors, pre-engineering students, etc. Students who have especially good high school training in algebra and trigonometry and who have exceptional scores on placement test may take 112 or 113 as a first course. Includes topics selected from the following: sets, logic, study of real number system, college algebra, trigonometry. Prerequisite: three semesters of high school algebra and satisfactory score on placement test, or 106.
- 113-5. **CALCULUS AND ANALYTIC GEOMETRY I.** Introduction to differentiation and antidifferentiation of algebraic functions, with related topics from analytic geometry. Prerequisite: 112 or demonstrated competence.
- 210-4. **THE TEACHING OF ELEMENTARY MATHEMATICS.** A professional treatment of the subject matter of arithmetic methods and a study of trends and current literature on the teaching of arithmetic. For elementary education majors only. Prerequisite: 106.
- 220-4. **ELEMENTARY STATISTICS.** A basic introduction to the simpler problems of statistical inference. Descriptive statistics, probability distributions, estimation of parameters and tests of significance, regression and correlation. Does not count toward a major or minor in mathematics. Prerequisite: 106 or 111, or consent of instructor.
- 251-4, 252-4, 253-4. **CALCULUS AND ANALYTIC GEOMETRY II, III, IV.** Continuation of differential and integral calculus introduced in 113, with applications. Includes transcendental functions, differentials, polar coordinates, solid analytic geometry, partial differentiation, multiple integrals, and infinite series. Prerequisite: 113.
- 305-3, 306-3. **DIFFERENTIAL EQUATIONS I, II.** Classical methods of solving ordinary differential equations including Laplace transform techniques. Prerequisite: 253.
- 311-3. **THE TEACHING OF SECONDARY MATHEMATICS.** A study of the nature and objectives of the secondary mathematics curriculum. Particular attention is given to the means of introducing new ideas into the high school program. For students preparing to be certified teachers of

- secondary mathematics. Does not count toward a mathematics major in the College of Liberal Arts and Sciences. Prerequisite: 320.
- 313-4. **SOLID ANALYTIC GEOMETRY.** An algebraic study of equations of the first and second degree in three variables, with applications to geometry. Systems of planes; equations of lines in symmetric and parametric form. Spheres, cylinders, surfaces of revolution. Matrix algebra; real orthogonal and symmetric matrices. Coordinate transformations; orthogonal similarity. Quadratic forms and quadric surfaces; invariants; principal axes and planes. Prerequisite: 253 or consent of department.
- 320-3, 330-3. **FUNDAMENTAL CONCEPTS OF ALGEBRA I, II.** Introduction to abstract algebraic structures, including groups, rings, and fields. Attention is given to classical theory of numbers and polynomials. Prerequisite: 251.
- 335-3, 336-3. **CONCEPTS OF GEOMETRY I, II.** An elementary introduction to various geometric systems to acquaint the student with the interrelationship between geometries of current interest. Topics include axiom systems, introduction to synthetic projective and analytic projective, projective definition of co-ordinate systems, affine geometry, Euclidean geometry, and non-Euclidean geometry. Prerequisite: 252 or consent of instructor.
- 395-2 to 8. **READINGS IN MATHEMATICS.** Supervised reading in selected subjects. Prerequisite: twelve hours of 300 or 400 level mathematics, "B" average in mathematics, and consent of chairman of department.
- 400-3. **HISTORY OF MATHEMATICS.** An introduction to the development of major mathematical concepts. Particular attention is given to the evolution of the abstract concept of space, to the evolution of abstract algebra, to the evolution of the function concept, and to the changes in the concept of rigor in the development of mathematics from 600 B.C. to the present time. Prerequisite: 320 or consent of instructor.
- 410-4, 411-4, 412-4. **STATISTICAL ANALYSIS I, II, III.** An introduction to the principles and techniques of statistical inference. Elements of probability theory. Population, sample and sampling distributions. Estimation and testing hypotheses on means and variances. Analysis of variance and covariance. Nonparametric methods. Topics in experimental design. For students in fields using statistical methods. Will not normally be counted on a mathematics major. Prerequisite: 111.
- 415-2 to 4. **NON-EUCLIDEAN GEOMETRY.** An introduction to hyperbolic and elliptic plane geometry and trigonometry. Emphasis given to the nature and significance of geometry and the historical background of non-Euclidean geometry. Occasionally offered as part of the special graduate minor for secondary school teachers. Prerequisite: 252 or consent of instructor.
- 421-3, 422-3. **LINEAR ALGEBRA I, II.** Linear algebra, including the theory of determinants and systems of linear equations; vector spaces, linear independence, bases, dimension; linear transformations, change of base, similarity; quadratic and Hermitian forms; orthogonal and unitary transformations; triangular and diagonal form; eigenvalues and eigenvectors; normal matrices; nilpotent and idempotent matrices, the spectral theorem. Prerequisite: 253.
- 425-3. **THEORY OF NUMBERS.** Topics in elementary number theory, in-

- cluding properties of integers and prime numbers, divisibility, Diophantine equations, and congruence of numbers. Prerequisite: 320.
- 430-4. PROJECTIVE GEOMETRY. Introduction to the fundamental concepts of projective geometry. Topics usually include the study of conics, polar systems of conics, homogeneous coordinates, cross-ratio, harmonic sets, duality, projectivities, and involutions. Prerequisite: 252 or consent of instructor.
- 433-3. THEORY OF POINT SETS. General properties of sets; topology of plane sets; closed sets and open sets in metric spaces, homeomorphisms and continuous mappings, connectedness. Prerequisite: 253 and six credits in courses numbered 300 or higher, or consent of instructor.
- 440-2 to 4. MODERN ALGEBRA FOR TEACHERS. An introduction to algebra as a logical system, including groups, rings, and fields. Offered as part of the special graduate minor for secondary school teachers. Prerequisite: consent of instructor.
- 442-3. SURVEY OF GEOMETRY. A survey of geometry, including projective geometry, topology, etc. Offered as part of the special graduate minor for secondary school teachers. Prerequisite: consent of instructor.
- 443-4. ANALYTIC METHODS IN GEOMETRY. An investigation into the use of analytical methods in geometry, with particular attention to Cartesian plane and solid geometry. Synthetic and analytic methods contrasted. Prerequisite: consent of chairman.
- 449-3 to 4. TEACHING MODERN ALGEBRA. Topics in modern algebra and their implications for the secondary school mathematics program. Prerequisite: consent of department.
- 452-3, 453-3, 454-3. ADVANCED CALCULUS. The fundamental concepts of analysis: limits, continuity, differentiation, and integration. Major topics include partial differentiation, vector, analysis, Riemann-Stieltjes integrals, multiple integrals, infinite series, improper integrals, uniform convergence, Fourier series, and line and surface integrals. Prerequisite: 253.
- 455-4. PROGRAMMING FOR DIGITAL COMPUTERS. An intensive course in digital computer programming. Topic includes computer organization and characteristics, machine language coding, flow charts, sub-routines, symbolic coding, and compiler systems. Equipment of the University's Data Processing and Computing Center used for applications. Prerequisite: consent of instructor.
- 460-4. MODERN GEOMETRY. Advanced topics in Euclidean geometry by the synthetic method. Topics including the nine-point circle, Simson line, theorems of Ceva and Menelaus, coaxal circles, harmonic section, poles and polars, similitude, and inversion. Prerequisite: 20 hours of college mathematics.
- 475-3. NUMERICAL METHODS. An introduction to approximation methods including finite differences and interpolation; numerical differentiation and integration; curve fitting, numerical solution of algebraic, transcendental and differential equations. Prerequisites: 305, or 253 and consent of instructor.
- 480-3, 481-3, 482-3. PROBABILITY AND STATISTICS. An introduction to probability theory and the mathematical methods used in obtaining procedures for various problems of statistical inference. Topics include the

algebra of probabilities, discrete and continuous distributions, limit theorems, sampling distributions, principles of statistical estimation, and testing hypotheses. Prerequisite: 253.

Courses on the 500 level are for graduate students only.

- 501-3, 502-3, 503-3. **REAL VARIABLES.** A basic course in mathematical analysis. The real number system; fundamental theorems in limits and continuity; open, closed, compact, and connected sets in Euclidean and metric spaces; the Riemann and the Riemann-Stieltjes integrals and functions of bounded variation; infinite series; uniform continuity; uniform convergence of series and improper integrals; arcs and curves; implicit function theorem; multiple integrals. The third quarter presents the general theory of measure and integration from an abstract point of view. Additive classes of sets, Borel sets, measurability, measure and outer measure; integrable functions, convergence theorems; absolute continuity and the Radon-Nikodym theorem; Fubini's theorem. Prerequisite: 454.
- 510-4. **FOUNDATIONS OF MATHEMATICS.** A critical survey of the logical basis of mathematical systems. Deductive processes, mathematical proof theory, axiomatics, nature of model systems, principles of theory construction, views concerning the nature of mathematics. Prerequisites: 253, and consent of instructor.
- 520-4, 521-4. **MODERN ALGEBRA I, II.** Intended to display some of the richness of algebra when mathematical systems other than the traditional one based upon the real numbers are considered. Abstract theory of groups, rings, and fields, with particular attention to examples from permutation groups, matrices, vector spaces, and polynomial and other function spaces; rational numbers and fields, complex numbers, unique factorization, algebraic number fields. Prerequisites: 320 and 330.
- 530-3 to 6. **POINT SET TOPOLOGY.** Topological spaces; denseness, category; open, closed sets, Borel sets; separation axioms; subspaces; continuity; lattice of topologies; countability axioms; connectedness, compactness, local properties; regularity to complete normality; Hilbert space, metrizable spaces; extension theorems; well-ordering; product spaces. Prerequisite: 433 or 502.
- 535-4. **ALGEBRAIC PLANE CURVES.** Prerequisite: 253.
- 536-3. **DIFFERENTIAL GEOMETRY.** Curvature, torsion, the Frenet formulas, and intrinsic equations of curves in three dimensional Euclidean space; applications to kinematics. Curves on a surface; first and second fundamental forms; normal sections and Meusnier's theorem; mean and total curvature. Prerequisite: 454.
- 540-4. **GROUPS AND LINEAR TRANSFORMATIONS.** A study of groups with their connection with the movements of regular plane figures, matrices, vectors, determinants with their interpretation and use in analytic geometry, and ruler and compass constructions. Prerequisite: 440 or its equivalent.
- 541-2 to 4. **SETS AND PROBABILITY.** The elements of probability, with some applications to social sciences. Offered as part of the special graduate minor for secondary school teachers. Prerequisite: consent of instructor.

- 542-2 to 4. ELEMENTARY FUNCTIONS FROM AN ADVANCED STAND-POINT. Analysis of properties of algebraic, trigonometric, exponential, and logarithmic functions, using contemporary notion of function. Pre-requisite: consent of department chairman.
- 544-3. FUNDAMENTAL CONCEPTS OF CALCULUS. A careful study of the basic concepts of calculus. Offered as part of the special graduate minor for secondary school teachers. Prerequisite: consent of instructor.
- 550-1 to 10. SEMINAR. Supervised study and preparation of reports on assigned topics. Reports presented for class discussion. 550A—Seminar in Algebra; 550B—Seminar in Geometry; 550C—Seminar in Analysis; 550D—Seminar in Probability and Statistics; 550E—Seminar in Mathematics Education. Prerequisite: consent of instructor.
- 555-3, 556-3. COMPLEX VARIABLES. A thorough treatment of classical analytic function theory including the Cauchy-Riemann equations, conformal mapping, Riemann mapping theorem, Cauchy-Goursat theorem, calculus of residues, analytic continuation, entire functions, gamma and beta functions, Bessel's and Legendre's equations, elliptic integrals. Prerequisite: 454.
- 595-1 to 10. SPECIAL PROJECT. An individual project, including a written report. 595A in Algebra; 595B in Geometry; 595C in Analysis; 595D in Probability and Statistics; 595E in Mathematics Education.
- 599-5 to 9. THESIS.

MICROBIOLOGY

Professor Carl C. Lindegren, Ph.D.	
(California Institute of Technology), Chairman	1947
Professor Maurice Ogur, Ph.D. (Columbia)	1953
Associate Professor Isaac L. Shechmeister, Ph.D. (California)	1957
Assistant Professor Dan O. McClary, Ph.D. (Washington University)	1951
Lecturer Shizu Washio, Ph.D. (Tokyo)	1960-61

SUGGESTED CURRICULUM IN MICROBIOLOGY

The following curriculum leads to the Bachelor of Arts degree with a major in microbiology in the College of Liberal Arts and Sciences.

General Degree Requirements (See page 10.)	71
College of Liberal Arts and Sciences Requirements (See page 11.)	37
Requirements in the Department of Microbiology	46
Microbiology 100, 201, 403, 425, 426, 441, 451	30
Microbiology electives to complete 46 hours	16
Related Requirements for the Major	63
Botany 101	5
Chemistry 111, 112, 113, 305, 306	23

Mathematics 111, 112, 113	15
Physics 206, 207, 208	15
Zoology 100	5
<i>Duplications of Requirements</i>	-32
The Related Requirements for the Major satisfy 17 hours of General Degree Requirements. They also satisfy 23 or 15 hours of College of Liberal Arts and Sciences Requirements if the student selects chemistry, mathematics, or physics for his minor. To avoid counting these hours twice in the total, they are deducted here.	
<i>Electives</i>	7
<i>Total</i>	192

A minor in microbiology will consist of a minimum of 24 hours. Required courses are 100 and 201 and are to be supplemented by those chosen from 403, 425-426, 441, 451.

Prospective majors are urged to consult with the departmental adviser for help in planning a curriculum.

COURSE DESCRIPTIONS

- 100-5. PRINCIPLES OF MICROBIOLOGY. Introduction to the fundamental aspects of biology, drawing for examples upon microbial forms. Consideration of morphology; principles of classification; growth and reproduction; heredity; ecology; effects of physical and chemical agents; organisms essential, beneficial and harmful to man; host-parasite interaction; principles of immunology and epidemiology. 3 hours lecture, 4 hours laboratory.
- 201-5. GENERAL MICROBIOLOGY. Continuation of Microbiology 100. A more advanced consideration of morphology, heredity, and metabolism of microorganisms and their influence on man's environment; mechanisms of infection and immunity. 3 hours lecture. 4 hours laboratory. Prerequisite: Microbiology 100 or consent of the instructor.
- 301-5. GENERAL MICROBIOLOGY FOR ADVANCED STUDENTS. Primarily a course for advanced students in other biological and physical sciences. An advanced treatment of cytology, theories and techniques of staining, physiology, enrichment cultures, and classification of microorganisms and their agricultural, industrial, and medical relationships. Not open to students who have had microbiology 100 or 201. 3 hours lecture. 4 hours laboratory. Prerequisite: one term botany or zoology and organic chemistry.
- 350-1 to 3. READINGS IN MICROBIOLOGY. For qualified undergraduates.
- 355-5. PLANT PATHOLOGY. (Same as Botany 355.) A study of plant diseases caused by fungi, bacteria, and viruses. Special attention to diseases of Southern Illinois plants. Laboratory and field trips. Prerequisite: approval of instructor.
- 401-2. SEMINAR. Prerequisites: 100 and 201, or 301.

- 403-5. **MEDICAL BACTERIOLOGY.** A general survey of the mechanisms of infection, epidemiology, and immunity and the specific application of these principles to the symptomatology, diagnosis, treatment, and control of the more common bacterial infections of man. 3 hours lecture and 4 hours laboratory. Prerequisite: 201 or 301 or equivalent.
- 422-5. **MICROBIOLOGY OF FOODS.** The relationships of microorganisms to the preparation and preservation of foods with consideration of the laws governing sanitation, chemical preservatives, and fair dealing of the food producer. 3 hours lecture, 4 hours laboratory. Prerequisite: 201 or 301.
- 423-5. **INDUSTRIAL FERMENTATION.** The application of the chemical activities of microorganisms to the industrial production of beverages, foods, antibiotics, and various commercial chemicals. 3 hours lecture, 4 hours laboratory. Prerequisites: 201 or 301 and organic chemistry.
- 424A-2 to 3. **SOIL MICROBIOLOGY.** (Same as Plant Industries 424A.) Numbers, characteristics, and biochemical activities of soil microorganisms, with particular consideration of their role in the transformations of organic matter, nitrogen, and minerals as related to soil fertility and management. Lectures. Prerequisite: Botany 101.
- 424B-2. **SOIL MICROBIOLOGY LABORATORY.** (Same as Plant Industries 424B.) Experiments designed to determine numbers, and to study the characteristics and biochemical activities of the soil microflora as related to fertility. Prerequisites: 100 or 301, 424A.
- 425-3. **BIOCHEMISTRY AND PHYSIOLOGY OF MICROORGANISMS.** The chemical basis of physiological functions in microbial cells with emphasis on the pathways of metabolism common to all living things. 3 hours lecture. Prerequisites: 201 and organic chemistry.
- 426-2. **BIOCHEMISTRY AND PHYSIOLOGY OF MICROORGANISMS.** 4 hours laboratory. Prerequisite or corequisite: 425.
- 441-5. **VIROLOGY.** Properties, cultivation, and titration of viruses and rickettsiae; cellular infection, multiplication, and liberation of virus; immunological reactions and serological identification; haemmagglutination and interference phenomena. 4 hours lecture, 4 hours laboratory. Prerequisite: 403.
- 451-5. **IMMUNOLOGY.** Natural and acquired immunity; antigens, antibodies, and antigen-antibody reactions; hypersensitivity; practical use of immunity and hypersensitivity. 4 hours lecture, 4 hours laboratory. Prerequisite: 403.

Courses on the 500 level are for graduate students only.

- 500-2 to 6. **SEMINAR.**
- 501-2. **GENETICS OF MICROORGANISMS.** The general principles of genetic analysis with accent on tetrad analysis of yeast. 2 hours lecture.
- 503-2. **CYTOLOGY OF MICROORGANISMS.** Problems involved in the behavior of chromosomes at meiosis with special consideration of genetical data. 2 hours lecture.
- 504-5. **METHODS OF MICROBIOLOGICAL RESEARCH.** The recognition and plan of attack upon unsolved problems in microbiology. 3 hours lecture.
- 506-2. **BIBLIOGRAPHICAL METHODS IN MICROBIOLOGY.** Methods of communication of information in microbiology. 1 hour lecture, 2 hours laboratory.

511, 512, 513-3 to 15. RESEARCH.

525-3. BIOCHEMISTRY AND PHYSIOLOGY OF MICROORGANISMS. A continuation of 425.

526-2. BIOCHEMISTRY AND PHYSIOLOGY OF MICROORGANISMS. A continuation of 426. 4 hours laboratory. Prerequisite or corequisite: 525.

528-1 to 10. READINGS IN MICROBIOLOGY. Supervised readings for qualified graduate students.

550-4. MICROBIOLOGY FOR HIGH SCHOOL TEACHERS. Principles of microbiology with emphasis on the relation of the microbial world to plants and animals. Information regarding materials and methods applicable to high school biology courses. 2 lectures and 2 laboratory periods or field trips per week.

551-2. INTERMEDIATE MICROBIOLOGY FOR HIGH SCHOOL TEACHERS. Continuation of 550, emphasis on recent developments in microbial genetics, medical and industrial microbiology. 2 lectures and one demonstration period per week.

552-1. SEMINAR IN BIOLOGICAL SCIENCES. Discussion of topics in biology of particular interest to high school biology teachers.

599-3 to 9. THESIS.

600-3 to 48. THE DISSERTATION FOR DOCTORAL CANDIDATES. Hours and credit to be arranged.

PHILOSOPHY

Professor George E. Axtelle, D.Ed. (California)	1959
Professor Baker Brownell, A.M. (Harvard), Emeritus (1954)	1952
Professor William J. McKeefery, Ph.D. (Columbia)	1961
Professor Willis Moore, Ph.D. (California), Chairman	1955
Professor George K. Plochmann, Ph.D. (Chicago)	1949
Professor Charles D. Tenney, Ph.D. (Oregon)	1931
Associate Professor James A. Diefenbeck, Ph.D. (Harvard)	1950
Associate Professor William Henry Harris, Ph.D. (Boston)	1956
Assistant Professor George T. McClure, Ph.D. (Ohio State)	1958

Visiting Professor Luis A. Baralt, Ph.D. (Havana)	1961-62
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Visiting Professor Henry N. Wieman, Ph.D. (Harvard)	1956-62
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The four hour requirement in either philosophy or psychology in the College of Liberal Arts and Sciences may be satisfied by taking any two of the elementary 100-level courses or any single 200- or 300-level course. Prerequisites apply only where specifically stated.

The courses 100, 120, 121, 140, 160, and 170 present an introduction to philosophic ideas, problems, and vocabulary. They may be taken without regard to whether the student plans to major or minor in philosophy.

The minor consists of twenty-four hours, of which four may be in 100-level courses. The department urges that minors include in their program the history of philosophy sequence 381, 382, and 383.

SUGGESTED CURRICULUM IN PHILOSOPHY

The following curriculum leads to the Bachelor of Arts degree with a major in philosophy in the College of Liberal Arts and Sciences.

General Degree Requirements (See page 10.)	71
College of Liberal Arts and Sciences Requirements (See page 11.)	37
Requirements in the Department of Philosophy	42
Philosophy 381, 382, 383	12
Philosophy electives, numbered 200 or above, and selected in conference with the chairman of the department, to complete 42 hours.	30
Duplication of Requirements	-4
The departmental requirements satisfy 4 hours of College of Liberal Arts and Sciences Requirements. These hours are deducted here to avoid counting them twice in the total.	
Electives	46
Total	192

COURSE DESCRIPTIONS

- 100-2. SCIENCE AND THE NATURE OF THE WORLD. Introduction to scientific knowledge and its relation to philosophy. Topics drawn from many sciences presented without assuming any prior acquaintance with the sciences: infinity, cause, necessity, nature and the machine, perception, etc.
- 120-2. PRACTICAL LOGIC I. Introduction to accurate thinking, and the proper use of the resources of language, covering such topics as signs and symbols, definition, metaphor, fallacies, propaganda analysis, implication, and syllogism.
- 121-2. PRACTICAL LOGIC II. Popular but inadequate ways of gathering and summing up information in contrast with the more reliable procedures of common sense and science.
- 140-2. IDEAS OF GOOD AND EVIL. Elementary exploration of human purposes in terms of the good, faith and knowledge, human destiny and progress, freedom, democracy.
- 160-2. THE MEANING OF ART. Significance of the arts, developed by considering selected works from architecture, painting, literature, and music.
- 170-3. VALUES IN THE MODERN WORLD. A critical examination of basic moral, religious, aesthetic, and intellectual values of western civilization as these are expressed in selected works of art, music, literature, and

- philosophy. Attention will be given to alternative value systems and other forces which challenge these values today.
- 200-4. TYPES OF PHILOSOPHY. Study of realism, idealism, and materialism.
- 300-4. ELEMENTARY METAPHYSICS. Presentation of answers to the most general problems of existence. An attempt to unify all scientific approaches to reality through the laying down of common principles.
- 301-4. PHILOSOPHY OF RELIGION. An analysis of problems in the psychology, metaphysics, and social effects of religion. Among topics discussed are the nature of mystical experience, the existence of God, and problems of suffering, prayer, and immortality.
- 302-4. WORLD RELIGIONS. An historical and comparative study of the principal religions of the world. Particular attention is given to such non-Christian faiths as Hinduism, Buddhism, and Islam.
- 303-4. ORIENTAL PHILOSOPHY. An examination of the historical backgrounds and contemporary expressions of the great traditions in Indian, Chinese, and Japanese thought. The Vedanta and Zen Buddhism will receive particular attention.
- 305-4. PHILOSOPHY OF SCIENCE. A nontechnical discussion of philosophic problems as they emerge from the various sciences, with readings from works addressed to the lay public.
- 320-4. GENERAL LOGIC. Terms, propositions, and reasoning. Logic as an instrument for the solution of problems in natural and social sciences.
- 340-4. ELEMENTARY ETHICS AND POLITICS. Problems of right and wrong for the individual and society.
- 355-4. PHILOSOPHY OF EDUCATION. Survey of theories of education and their relationships to educational policies and practices, as elucidated by the great teachers. Satisfies the education requirement, Education 355.
- 360-4. PHILOSOPHY OF ART. The significance of art as a human activity, its nature and standards as seen in the problems of criticism, and the relation of art to other forms of knowledge.
- 381-4. GREEK AND EARLY CHRISTIAN PHILOSOPHY. Presocratics, Plato, Aristotle, and the early Christians.
- 382-4. MEDIEVAL AND EARLY MODERN PHILOSOPHY. Problems of medieval philosophy and their restatement in the seventeenth and eighteenth centuries. Aquinas, Descartes, Locke, and others.
- 383-4. RECENT PHILOSOPHY. Kant, Hegel, and such figures as Schopenhauer, Mill, and Bergson.
- 386-4. AMERICAN PHILOSOPHY. A survey of American philosophic thought from colonial days to the present, with emphasis on such recent thinkers as Peirce, James, Royce, Dewey, and Santayana.
- 406-4. PHILOSOPHY OF BIOLOGY. Leading concepts of biological sciences: species, evolution, life, organism and part, etc. Abstract ideas of biology are related, wherever possible, to specific experiments recorded in scientific literature. Prerequisites: 300 or 320, and three laboratory or field courses in the biological sciences or consent of instructor.
- 415-3. LOGIC OF THE SOCIAL SCIENCES. Logical and epistemological examination of social studies as types of knowledge. Basic problems in philosophy of science with major emphasis upon social science: relationship of theory to fact, nature of induction, nature of causal law, testability, influence of value judgments, etc. Intended for students with considerable maturity in a social science or in philosophy.

- 420-4. **ADVANCED LOGIC.** A careful study of symbolic and discursive systems of logic: Aristotle, Spinoza, Boole, Whitehead, and Johnson. Prerequisites: 320 and consent of instructor.
- 422-3. **MATHEMATICAL LOGIC I.** Matrix and set theory axiomatic development of the propositional calculus. Many-valued logics, modal logics; related problems. Prerequisites: 6 hours of philosophy, including 320, or 6 hours of mathematics courses 300 or higher, or consent of instructor.
- 423-3. **MATHEMATICAL LOGIC II.** The predicate calculus and related problems. Prerequisite: 422, or consent of instructor.
- 424-3. **LOGIC OF THE EXACT SCIENCES.** Critical study of the technical and philosophic problems associated with formal logic and its uses as a tool for model construction, for formalizations, reconstructions, and as an image of rational thought. Prerequisites: 422 and 423, or consent of instructor.
- 441-4. **PHILOSOPHY OF POLITICS.** Some of the central problems of modern political life, such as sovereignty, world government, authority and consent, the relations of economics and social studies to political theory. Prerequisite: 140 or 340 or consent of instructor.
- 443-4. **PHILOSOPHY OF HISTORY.** Classical and contemporary reflections on the nature of history and historical knowledge as the basis for dealing with the humanities. Prerequisite: consent of instructor.
- 460-4. **ADVANCED PHILOSOPHY OF ART.** The definition of art, its relations to science, culture, and morals; the various types of art defined. Familiarity with at least one of the fine arts is assumed. Prerequisites: 160 or 360, and six courses in music, painting, sculpture, literature, or drama.
- 477-4. **LATIN AMERICAN PHILOSOPHY.** A survey of philosophic thought in Latin America from colonial times, through nineteenth century positivism and the reactions against it, up to present trends. Reading of original texts in English translations. Discussions and reports. Prerequisite: consent of instructor.
- 478-4. **SEMINAR IN LATIN AMERICAN THOUGHT.** Investigation of research topics connected with Latin American thought during the nineteenth and twentieth centuries in the fields of government, social sciences, education, literature, and philosophy. Individual studies and reports. Prerequisite: consent of instructor.
- 490-2 to 12. **SPECIAL PROBLEMS.** Hours and credits to be arranged. Courses for qualified seniors and graduates who need to pursue certain topics further than regularly titled courses permit. Special topics announced from time to time. Students are invited to suggest topics for individual study and papers or for group study. Consent of instructor in all cases required.

Courses on the 500 level are for graduate students only.

- 500-2 to 4. **SEMINAR IN METAPHYSICS.** Study of recent writers and current problems in metaphysics with the intent of familiarizing the student with the traditional problems of the area.
- 501-2 to 4. **SEMINAR IN THE PHILOSOPHY OF RELIGION.** Analysis of a selected problem in philosophical theology or the psychology of religion, or of the work of a particular thinker. Recent seminars have been on Paul Tillich and Henry Nelson Wieman.

- 530-2 to 4. SEMINAR IN THEORY OF KNOWLEDGE. Examination of a contemporary writer or problem in epistemology. Special emphasis is given to the problem of the reliability and structure of scientific knowledge.
- 551-4, 552-4, 553-4. PHILOSOPHIC PROBLEMS OF CONTEMPORARY CIVILIZATION. An examination of the crisis in contemporary civilization. The reconstruction of ideas and values involved and an analysis of crucial problems in terms of this intellectual reconstruction.
- 581-2 to 4. SEMINAR IN PLATO. A thorough study of several of the dialogues. Lectures on the system of Plato as a whole, discussions and reports on the readings.
- 582-2 to 4. SEMINAR IN ARISTOTLE. The philosophic ideas of Aristotle. Intensive reading of several texts, illustrating widely varied portions of his thought.
- 586-2 to 4. SEMINAR IN SPINOZA. Analysis of the *Improvement of the Understanding* and the *Ethics*. Lectures relating Spinoza to the medieval tradition and to his contemporaries. Discussions and reports.
- 588-2 to 4. SEMINAR IN KANT. The three great *Critiques* in their relation to the development of Kant's total philosophy. Intensive study of one of the *Critiques*.
- 589-2 to 12. GENERAL GRADUATE SEMINAR.
- 590-2 to 12. GENERAL GRADUATE SEMINAR. Courses designed for students having special interests in the history of philosophy and the original systematic development of philosophic ideas. Subjects, meetings, and procedures to be arranged at the first meeting of each course. Prerequisite: consent of instructor. Hours to be arranged.
- 591-1 to 5. READINGS IN PHILOSOPHY. Supervised readings for qualified students. Consent of instructor required.
- 599-2 to 9. THESIS.

PHYSICS AND ASTRONOMY

Professor Martin Joseph Arvin, Ph.D. (Illinois)	1949
Professor Charles J. Brasefield, Ph.D. (Princeton), Chairman	1954
Professor Richard Elvis Watson, Ph.D. (Illinois)	1940-42; 1958
Professor Otis B. Young, Ph.D. (Illinois)	1929
Associate Professor George A. Russell, Ph.D. (Illinois)	1960
Assistant Professor Jason J. Collins, M.S. (Southern Illinois)	1955
Assistant Professor John A. Eisele, Ph.D. (Ohio State)	1959
Assistant Professor Richard L. Linster, Ph.D. (Illinois)	1960
Assistant Professor Charlotte Zimmerschied, M.A. (Minnesota)	1927
Instructor Robert C. Etherton, M.S. (Southern Illinois)	1955
Instructor James L. Harbison, M.S. (Illinois)	1957
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Lecturer Robert S. Revak, M.A. (Southern Illinois)	1960-62

Undergraduate courses in physics may be taken as a major by students in the College of Liberal Arts and Sciences and in the College of Education.

SUGGESTED CURRICULUM IN PHYSICS

The following curriculum leads to the Bachelor of Arts degree with a major in physics in the College of Liberal Arts and Sciences.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)	37
<i>Requirements in the Department of Physics and Astronomy</i>	53
Physics 211, 212, 213, (or 206, 207, 208 with consent of the department); 301, 302, 305, 306, 413	38
Physics 304, 310, 405, 414, 450 (any 3)	15
<i>Related Requirements for the Major</i>	48
Chemistry 111, 112, 113 (Recommended)	15
Mathematics 111, 112, 113, 251, 252, 253, 305, 306	33
The foreign language should be German or Russian	0
<i>Duplications of Requirements</i>	-36
The Related Requirements for the Major satisfy 12 hours of General Degree Requirements and 24 hours of College of Lib- eral Arts and Sciences Requirements. To avoid counting these hours twice in the total, they are deducted here.	
<i>Electives</i>	19
<i>Total</i>	192

The curriculum leading to the Bachelor of Science in Education degree with a major in physics in the College of Education includes the following *Requirements for the Major*:

Physics 211, 212, 213, (or 206, 207, 208 with consent of the department); 301, 302, 305, 306, 413	38
Physics 304, 310, 405, 414, 450 (any 2)	10
Chemistry 111, 112, 113 (Recommended)	15
Mathematics 111, 112, 113, 251, 252, 253, 305, 306	33
Recommended elective for a major in physics: mechanical drawing or machine shop.	

Suggested courses for a minor in physics for a student who is taking calculus: 211, 212, 213 and two of the following: 304, 305, 306, 310, 413.

Suggested courses for a minor in physics for a student who does not plan to take calculus: 206, 207, 208 and two of the following: 310, 312, 325.

COURSE DESCRIPTIONS

PHYSICS COURSES

- 101-4, 102-4. SURVEY COURSE IN PHYSICS. Mechanics, light, and sound covered in 101; heat and electricity in 102. For students whose chief interests are not in the physical sciences (101 and 102 are not credited toward a major or minor in physics). Pre-engineers and physics majors should take 211, 212, and 213. Other science majors, including pre-medical students, may take 206, 207, and 208.
- 206-5. COLLEGE PHYSICS (MECHANICS AND SOUND). The general physics course covered in 206, 207, and 208 is designed to meet pre-medical requirements in physics and the needs of all students majoring in one of the sciences, except physics. Prerequisite: Mathematics 112.
- 207-5. COLLEGE PHYSICS (ELECTRICITY AND MAGNETISM). A continuation of 206. Prerequisite: 206.
- 208-5. COLLEGE PHYSICS (HEAT AND LIGHT). A continuation of 206. Prerequisite: 206.
- 211-5. UNIVERSITY PHYSICS (MECHANICS AND SOUND). Physics 211, 212, and 213 together constitute a thorough course in basic physics for physics majors and pre-engineers. Prerequisite: Mathematics 251 (or concurrent enrollment).
- 212-5. UNIVERSITY PHYSICS (ELECTRICITY AND MAGNETISM). A continuation of 211. Prerequisite: 211 and Mathematics 252 (or concurrent enrollment in Mathematics 252).
- 213-5. UNIVERSITY PHYSICS (HEAT AND LIGHT). A continuation of 211. Prerequisite: 211 and Mathematics 252 (or concurrent enrollment in Mathematics 252).
- 301-4, 302-4. MECHANICS I, II. Intermediate theoretical mechanics, using vector analysis: kinematics, particle dynamics, rigid body mechanics, oscillations, wave motion, and advanced principles. Prerequisites: 206 or 211; Mathematics 305, or concurrent enrollment, or consent of instructor.
- 304-3. THERMODYNAMICS. Survey of laws of classical thermodynamics. Their constituents in application to some simple thermodynamic systems; phase equilibrium and theory of phase transitions. Prerequisites: 208 or 213, Mathematics 253.
- 305-5, 306-5. INTRODUCTION TO ELECTRIC THEORY I, II. Vector treatment of the theory, with laboratory: electrostatics in vacuo and in matter, steady currents, magnetism, alternating currents, complex number analysis of a-c circuits, electromagnetic radiation. Prerequisites: 207 or 212; Mathematics 305, or concurrent enrollment, or consent of instructor.
- 308-5. SOUND. Theory of vibrations and sources of sound, transmission, reception, and measurement of sound energy. Prerequisite: 206 or 211 and Mathematics 251.
- 310-5. LIGHT. A study of light propagation and optical instruments; interference, diffraction and polarization of light. Prerequisite: 208 or 213.
- 312-5. RADIO. A study of radio receivers and transmitters. Prerequisite: 207 or 212.
- 313-4. PRINCIPLES OF MODERN PHYSICS I. General survey of modern

- physics including relativity theory, quantum theory, atomic structure and spectra, and wave mechanics. Prerequisites: 302, 306, Mathematics 306, or consent of instructor.
- 316-5. **HISTORY OF PHYSICS.** A study of the development of physical concepts and theories, and of contemporary physical research. Designed particularly for students planning to teach.
- 325-5. **ATMOSPHERIC PHYSICS.** A study of the fundamental physical processes in the atmosphere; the important role of water vapor; thermodynamic processes; radiation equilibrium; the general equations of motion; the growth of cyclic circulations; optical and electrical phenomena. Prerequisite: 208 or 213, or consent of instructor.
- 326-3. **GEOPHYSICS.** A survey of some of the principal applications of physics in the development of the earth-sciences; explanations of the origin of the earth; investigation and explanation of the shape and gross structure of the earth; determination of the age of the earth and some its constituents. Prerequisite: 206 or 211, or consent of instructor.
- 327-3. **ATMOSPHERIC ELECTRICITY AND GEOMAGNETISM.** A description of the more important phenomena of atmospheric electricity and geomagnetism, how these are measured and present theories regarding the origin of the basic phenomena in these fields. Prerequisite: 207 or 212, or consent of instructor.
- 402-5. **CONTEMPORARY PHYSICS.** A survey course in atomic and nuclear physics. Offered principally for high school teachers who wish a refresher course covering recent developments in physics. Prerequisites: 206, 207, 208; or 211, 212, 213; or consent of instructor.
- 405-5. **ELECTRONICS.** The physics of vacuum tubes and semiconductor devices. Elementary theory and application of vacuum tubes as circuit elements in power supplies, oscillators, amplifiers and shaping circuits. Prerequisites: 305, 306; Mathematics 306 or consent of instructor.
- 410-5. **PHYSICAL OPTICS.** A theoretical and experimental study of light as electromagnetic energy; its production, detection, and measurement. Prerequisites: Mathematics 253 and three advanced physics courses.
- 413-4. **PRINCIPLES OF MODERN PHYSICS II.** A continuation of 313 in which the techniques of wave mechanics and perturbation theory are developed; applications include the harmonic oscillator, particle in a box, rigid rotator, the hydrogen atom and molecule, multi-electron atoms. Prerequisite: 313 or consent of instructor.
- 414-5. **RECENT DEVELOPMENTS.** A continuation of 413, including nuclear physics and elementary particle physics. Prerequisite: 413.
- 420-2 to 5. **SPECIAL PROJECTS I.** Each student is assigned a definite investigative topic. Adapted to advanced undergraduate students. Prerequisites: 301, 302, 305, 306.
- 421-2 to 5. **SPECIAL PROJECTS II.** A continuation of 420. Credit in 420 and 421 not to exceed nine hours. Prerequisite: 420.
- 425-5. **ELECTRICAL PHENOMENA IN GASES.** Excitation and ionization of gas atoms; diffusion of ions; space charge; glow and arc discharges. Prerequisites: 305, 306.
- 430-2. **PHYSICAL LITERATURE.** A study of source materials in the field of physics. Also library search on special subjects. Prerequisite: integral calculus, three advanced physics courses, and one year of German.

- 450-5. INTRODUCTION TO SOLID STATE PHYSICS. A study of the fundamentals of Solid State Physics including classification of solids, interatomic and intermolecular forces, lattice energies, specific heats, lattice dynamics, free electron theory of metals, lattice defects, color centers, luminescence, magnetic materials, radiation damage, transport in ionic crystals, Fermi-Dirac statistics, Fermi distribution, and semi-conductors. Prerequisites: 304, 305, 306, 413.

Courses on the 500 level are for graduate students only.

- 501-5, 502-5, 503-5. METHODS OF THEORETICAL PHYSICS I, II, III. A three-quarter sequence covering classical theoretical physics; devoted about equally to advanced dynamics and electrodynamics including radiation theory. Prerequisites: 301, 302, 305, 306; Mathematics 305, 306; concurrent enrollment in Physics 511 or consent of instructor.
- 507-5. ADVANCED ELECTRICAL THEORY I. Advanced study of the theory of electrostatics, dielectrics, conductors, non-ohmic circuits elements, chemical, thermal, and photoelectric effects, and conduction in gases. Prerequisites: 305, 306, Mathematics 305, 306.
- 508-5. ADVANCED ELECTRICAL THEORY II. Prerequisite: 507.
- 511-4, 512-4, 513-4. MATHEMATICAL METHODS OF PHYSICS I, II, III. Vector analysis and curvilinear coordinate systems, partial differential equations of classical physics, expansions in orthogonal functions, boundary value problems, introduction to complex analysis, contour integration, linear transformations and matrices, eigenvalue problems, integral equations and transforms, Schrodinger's equation and elementary quantum mechanics. Prerequisites for 511: 413, Mathematics 306. Prerequisites for 512 and 513: 511 and Mathematics 452, 453, and 454 (or consent of instructor).
- 520-2 to 5. SPECIAL PROJECTS. Each student assigned a definite investigative topic requiring considerable resourcefulness and initiative. Prerequisite or corequisite: 501.
- 521-2 to 5. ADVANCED RESEARCH. A continuation of 520. Prerequisite: 520.
- 590-1 to 9. RESEARCH IN PHYSICS (THESIS). 1-5 hours each term. The total in this group not to exceed 9 hours. Prerequisite or corequisite: 501.

ASTRONOMY COURSES

- 201-4, 202-4. INTRODUCTION TO ASTRONOMY. These two terms together constitute a single complete course. Four recitations a week, together with frequent evening observations with and without telescope.
- 301-4, 302-4. ASTRONOMY. A more advanced course, similar to 201 and 202, for senior college students.

PHYSIOLOGY

Professor H. M. Kaplan, Ph.D. (Harvard), Chairman	1949
Associate Professor Frank J. Finamore, Ph.D. (Florida State)	1955
Associate Professor George Hiram Gass, Ph.D. (Ohio State)	1959

Associate Professor Joseph P. Miranti, M.D. (Loyola, Louisiana)	1961
Visiting Professor Forrest D. McCrea, Ph.D. (Wisconsin)	1960-61
Adjunct Professor Eli L. Borkon, Ph.D., M.D. (Chicago)	1954

SUGGESTED CURRICULUM IN PHYSIOLOGY

The following curriculum leads to the Bachelor of Arts degree with a major in physiology in the College of Liberal Arts and Sciences.

General Degree Requirements (See page 10.)	71
College of Liberal Arts and Sciences Requirements (See page 11.)	37
Requirements in the Department of Physiology	42
Physiology electives selected in consultation with the chairman of the department to total at least 42 hours.	
Related Requirements for the Major	0-30
A background of basic courses in chemistry, mathematics, and physics is required. Elementary courses in either botany or zoology are recommended.	
Electives	12-42
Total	192

A minor in physiology requires a minimum of 24 hours.

COURSE DESCRIPTIONS

- 209-5. INTRODUCTION TO PHYSIOLOGY. A survey of the functions of the human body. Designed for students in various fields desiring a basic but comprehensive knowledge of human physiology. Physiology majors should not take this course. Three hours lecture and four hours laboratory per week.
- 300-4. HUMAN ANATOMY. Lectures, demonstrations, and periodic observation of the prosected body. Lectures confined to bones, joints, muscles, and nerves. Primarily for majors in physical education. Four hours lecture per week.
- One section called 300N is reserved chiefly for nursing students. All bodily systems are reviewed. A three-hour laboratory is substituted for one of the lectures.
- 315, 316, 317-5. ADVANCED COLLEGE PHYSIOLOGY. The lectures emphasize mammalian and human physiology whereas the laboratory involves function throughout the vertebrate classes. (Course 315, blood, circulation, and respiration; Course 316, digestion, excretion, endocrines; Course 317, muscle, nervous system, sense organs.) These courses are necessary for majors and for students requiring a strong background knowledge particularly of mammalian function. Three hours lecture and four hours laboratory per week.

- 401-2 to 6. SEMINAR. Open to graduates and undergraduates with adequate training in physiology, physics, and chemistry.
- 410-5, 411-5, 412-5. ADVANCED ANATOMY. Dissection of the human body. Primarily for majors in physiology and other biological sciences. Not a premedical course. 2 hours lecture, 6 hours laboratory.
- 414-4. PHYSIOLOGY OF SPEECH. The anatomy and physiology of the vocal apparatus. Primarily for majors in speech correction. 3 hours lecture, 2 hours laboratory.
- 415-4, 416-4. EXPERIMENTAL ANIMAL SURGERY I, II. Preparation of animals for surgery, anesthesia, instruments, care of animal quarters, selected exercises. 416 may be elected independently of 415. 2 hours lecture, 4 hours laboratory.
- 417-3. PRINCIPLES OF PHARMACOLOGY. Action of drugs and other chemical substances upon the living organism. Physiological and biochemical events resulting from the action of drugs. Pharmacodynamics, chemotherapy, toxicology, and therapeutics. Prerequisites: basic courses in chemistry and biological sciences. 2 hours lecture, 2 hours laboratory.
- 418-3. PRINCIPLES OF PHARMACOLOGY. Continuation of 417. 2 hours lecture, 2 hours laboratory. May be elected independently of 417.
- 420-3. PHYSIOLOGY OF EXERCISE. The effects of activity upon the human organism. 3 hours lecture and demonstrations.
- 421-1 to 6. READINGS IN CURRENT PHYSIOLOGICAL LITERATURE. Supervised reading in current topics. Open only by permission.
- 430-4, 431-4, 432-4. GENERAL (CELLULAR) PHYSIOLOGY. The nature and mechanism of the living cell. Chemical and physical aspects of vital activity. Recommended for students interested in biochemistry and biophysics. 3 hours lecture, 2 hours laboratory.
- 433-4. COMPARATIVE PHYSIOLOGY. Fundamental physiological processes and the manner in which they vary in various groups of animals. Recommended for majors in physiology and for students in other biological sciences. 3 hours lecture, 2 hours laboratory.
- 440-3. ELECTRON MICROSCOPY. Basic experience with the operation of the electron microscope. Specimen preparation. Prerequisites: advanced background in any natural or physical science. 2 hours lecture, 2 hours laboratory.
- 450-4 to 16. SPECIAL PROBLEMS IN PHYSIOLOGY. Selected problems in various aspects of physiology. 8 hours laboratory. Open only by permission.
- 455-2. PHYSIOLOGICAL PROBLEMS IN REHABILITATION. Designed specifically for the Rehabilitation Counseling Program. Problems of the handicapped. Not for physiology majors. 2 hours lecture.
- 460-4, 461-4, 462-4. MAMMALIAN PHYSIOLOGY. For graduate students who need a knowledge of human or mammalian function. Identical with 315, 316, 317. Both series run concurrently.
- 470B-3. RESEARCH FOR BIOLOGY TEACHERS. Laboratory experience in research methods for teachers of biology and general science.

Courses on the 500 level are for graduate students only.

- 500-1 to 6. ADVANCED SEMINAR. One meeting per week. 1 credit per quarter. Formal presentation of research and/or current literature in physiology. Required of all majors each quarter in residence.

- 519-3. EXPERIMENTAL PHARMACOLOGY. Exercises to familiarize the student with advanced physiological investigation. Prerequisites: strong background in chemistry and the biological sciences. 1 hour discussion, 4 hours laboratory.
- 520A-4, 520B-4, 520C-4. PHYSIOLOGICAL TECHNIQS. (1) Analysis of protoplasmic components of tissue extracts under a variety of physiological conditions using chemical procedures. (2) Gas analysis and metabolic methods in physiology. (3) Biophysics. Instrumentation for the recording of the physiologic activity of living tissues and organs. Use of channel recorders. Prerequisite: undergraduate major in any of the biological or physical sciences. Offered as three consecutive courses. 2 hours lecture, 4 hours laboratory.
- 530A-4, 530B-4. ADVANCED CELLULAR PHYSIOLOGY. A detailed consideration given to basic physiological processes such as permeability, active transport, metabolic cycles, energy transformations, and bioelectric potentials. Selected projects undertaken by the students in the laboratory. Prerequisite: 430 or equivalent. 2 hours lecture, 4 hours laboratory.
- 540A-4, 540B-4. ADVANCED COMPARATIVE PHYSIOLOGY. A comparative study of the physiological systems in animals. Subjects such as nitrogen metabolism, carbohydrate metabolism, and water balance of organisms will be given. 2 hours lecture, 4 hours laboratory. Prerequisites: 430 or 433 or equivalent, and organic chemistry.
- 550-3. RADIATION BIOLOGY. Theory and specific applications of isotopes in physiology are emphasized, and opportunity given to learn how to handle radioactive materials in the laboratory. 2 hours lecture, 2 hours laboratory. Prerequisite: 430 or equivalent, general physics, biochemistry or equivalent.
- 599-3 to 9. THESIS.

PSYCHOLOGY

Research Professor Noble H. Kelley, Ph.D. (Iowa)	1951
Professor Mortimer H. Appley, Ph.D. (Michigan), Chairman	1960
Professor Alfred Lit, Ph.D. (Columbia)	1961
Professor William C. Westberg, Ph.D. (Pennsylvania State)	1952
Associate Professor Sheldon Alexander, Ph.D. (Rochester)	1960
Associate Professor Jack W. Graham, Ph.D. (Purdue)	1951
Associate Professor John G. Martire, Ph.D. (Michigan)	1956
Associate Professor Guy A. Renzaglia, Ph.D. (Minnesota)	1955
Associate Professor Donald J. Shoemaker, Ph.D. (Ohio State)	1960
Associate Professor Leonard J. West, Ph.D. (Columbia)	1957
Associate Professor Forrest B. Tyler, Ph.D. (Ohio State)	1952
Assistant Professor Neil A. Carrier, Ph.D. (Michigan)	1957
Assistant Professor Ernest J. Doleys, Jr., Ph.D. (Missouri)	1959
Assistant Professor William Gerler, Ph.D. (Illinois)	1960

Assistant Professor Peter Hemingway, Ph.D. (Michigan State)	1960
Assistant Professor James McHose, Ph.D. (Iowa)	1961
Assistant Professor Janet Rafferty, Ph.D. (Ohio State)	1955
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Adjunct Professor Robert Carl Steck, M.D. (Illinois)	1956
Lecturer Richard H. Bahwell, M.A. (Missouri)	1961-62
Lecturer Ralph R. Roberts, Jr., M.A. (Missouri)	1961-62
Lecturer William Wagman, M.A. (Columbia)	1960-62

SUGGESTED CURRICULUM IN PSYCHOLOGY

The following curricula leads to the Bachelor of Arts degree with a major in psychology in the College of Liberal Arts and Sciences.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)	37
<i>Requirements in the Department of Psychology</i>	44
Psychology 201, 211, 212	12
Eight courses selected from one of the following two groups: 32	
Group 1, For Students Planning Graduate Study	
Psychology 311, 409	8
Psychology 312, 313, 314 (any one)	4
Psychology 301, 303, 304, 305, 307, 320, 322 (any 2)	8
Psychology 404, 407, 408, 421, 431, 440, 451, 461, 471 (any 2)	8
One additional course selected from those listed above.	4
Group 2, For Students Planning No Graduate Study	
At least three 400-level courses selected from those listed in group 1, above, and including 409 as one alternative.	12
Additional courses selected from group 1.	20
<i>Related Requirements for the Major</i>	5
Physiology 209 or 317	
<i>Duplication of Requirements</i>	-4
To avoid counting Psychology 201 twice in the total, 4 hours are subtracted here.	
<i>Electives</i>	39
<i>Total</i>	192

Courses 323, 406, 420, 432, 433, and 465 may not be used to satisfy

the major requirements, but are acceptable for the minor, which requires 24 hours.

For further information and advisement, consult the Department of Psychology.

COURSE DESCRIPTIONS

- 201-4. **INTRODUCTORY PSYCHOLOGY.** Introduction to the problems and methods of the science of behavior.
- 211-4, 212-4. **PRINCIPLES AND METHODS OF PSYCHOLOGY I, II.** An introduction to the experimental methods utilized in the study of behavior. Laboratory work emphasizes the application of these methods to the study of sensory and perceptual phenomena (211), and to the study of response characteristics (212). Lecture and laboratory. To be taken in sequence. Prerequisite: 201.
- 301-4. **CHILD PSYCHOLOGY.** A study of the biological and psychological development of the child from birth through puberty, and of relevant research methods and results. Prerequisite: 201.
- 303-4. **ADOLESCENT PSYCHOLOGY.** Examines the physical and psychological development of the adolescent, and the relevance of childhood development to adolescent problems. Prerequisite: 201.
- 304-4. **PSYCHOLOGY OF MATURITY AND OLD AGE.** A consideration of psychological factors in later maturity and old age and their concomitant problems, both individual and societal. Prerequisite: 201.
- 305-4. **PSYCHOLOGY OF PERSONALITY.** A study of the inferred patterns underlying an individual's unique reactions to his environment. Investigates the motivations, development, and methods of changing these patterns, and how personality processes are studied. Prerequisite: 201.
- 307-4. **SOCIAL PSYCHOLOGY.** Introduction to the study of the individual's interaction with his social environment. Considers problems of social learning, communication, social influence processes and group behavior. Prerequisite: 201.
- 311-4. **EXPERIMENTAL PSYCHOLOGY: LEARNING.** Investigates the processes governing behavioral change. Experimental studies of conditioning, memory, and forgetting will be emphasized. Laboratory work will include the design and conduct of experiments with humans and animals. Lecture and laboratory. Prerequisite: 212.
- 312-4. **EXPERIMENTAL PSYCHOLOGY: PERCEPTION.** Investigates the variables influencing an organism's stimulation by his environment. The structure and operation of the sense organs as well as complex perceptual phenomena will be examined in lectures and laboratory. Prerequisite: 212.
- 313-4. **EXPERIMENTAL PSYCHOLOGY: MOTIVATION.** An examination of both biological and social variables influencing the activation, direction, and maintenance of behavior. Laboratory work will examine the effects of motivation upon behavior. Lecture and laboratory. Prerequisite: 212.
- 314-4. **EXPERIMENTAL PSYCHOLOGY: COMPARATIVE AND PHYSIOLOGICAL.** An examination of the physiological and phylogenetic vari-

ables affecting behavior. The laboratory will involve work with different types of organisms, emphasizing physiological concomitants of behavior. Lecture and laboratory. Prerequisite: 212.

- 320-4. INDUSTRIAL PSYCHOLOGY. A study of the use of psychological methods in the analysis of human factors problems in business and industry. Prerequisite: 201.
- 322-4. PERSONNEL PSYCHOLOGY. A study of the use of psychological methods in the selection, placement, and evaluation of personnel in business and industry. Prerequisite: 201.
- 323-4. PSYCHOLOGY OF EMPLOYEE RELATIONS. Job satisfaction and morale, psychological aspects of labor relations, interviewing methods, human relations training. Lecture and laboratory. Prerequisite: 201.

Courses at the 400 and 500 level are listed according to areas. The second two digits indicate the content area:

- 00-19 General and Experimental
- 20-29 Measurement, Methodology, and Research Design
- 30-39 Personality, Counseling, and Psychotherapy
- 40-49 Tests and Assessment Procedures
- 50-59 Child and Developmental
- 60-69 Social
- 70-79 Personnel and Industrial
- 90-99 Independent Projects, Seminars, Practica, and Research

- 401-4, 402-4, 403-4. PROSEMINAR IN GENERAL PSYCHOLOGY I, II, III. Basic conceptual and methodological problems in the study of behavior. I. History and systems of psychology, philosophy of science, scientific methodology, behavior theory. II. Acquisition of behavior, sensory and perceptual processes, motivation and emotion. III. Personality and individual differences, new conceptual and methodological developments and trends. To be taken in sequence. Prerequisite: consent of instructor. Open to graduate students in other departments by arrangement with department chairman.
- 404-4. THEORIES OF PERCEPTION. An examination of the different theories concerned with an organism's sensory contact with his environment. Physiological, social, and organizational theories of perception will be considered. Prerequisite: 212 or consent of instructor.
- 406-4. LEARNING PROCESSES. Processes by which individual behavior is changed, using procedures developed in the learning laboratory. Introduction to major concepts and data of learning.
- 407-4. THEORIES OF LEARNING. A consideration of the major contemporary learning theories and their relation to experimental data. Prerequisite: 212 or consent of instructor.
- 408-4. THEORIES OF MOTIVATION. An examination of instinct theories, biological drives, emotions, social motives, and psychodynamic theories as they contribute to a comprehensive psychology of motivation. Prerequisite: 212 or consent of instructor.
- 409-4. HISTORY AND SYSTEMS. Study of the important antecedents of contemporary scientific psychology. Considers issues, conceptual developments, and research advances, and presents the major schools and systems. Prerequisite: 20 hours in psychology or consent of instructor.

- 420-4. **SCIENTIFIC METHODOLOGY IN PSYCHOLOGY.** Scientific methodology as an approach to investigation and classification of problems involved in understanding the psychological nature of man. Prerequisite: consent of instructor.
- 421-4. **PSYCHOLOGICAL TESTS AND MEASUREMENTS.** Principles of psychological measurement, including errors of measurement, techniques for estimating reliability and validity, techniques of test construction, and problems in assessment and prediction. The laboratory will include the use of selected instruments. Lecture and laboratory. Prerequisite: 8 hours of psychology.
- 424-2. **PSYCHOPHYSICAL METHODS.** Survey of the major psychophysical methods and their applications. Lecture and laboratory.
- 431-4. **PSYCHOPATHOLOGY.** Classification, description, etiology and treatment of the disorders of personality organization and behavioral integration. Observations in a state mental hospital setting. Prerequisite: 305 or consent of instructor.
- 432-4. **MENTAL HYGIENE.** An integration of psychological knowledge and principles concerning factors and conditions affecting the individual which tend to facilitate or to deter mental health. Prerequisite: 305 or consent of instructor.
- 433-2 to 6. **PERSONALITY AND MENTAL HEALTH.** Seminar on the basic factors in psychological development and their implications for mental health and psychopathology. Prerequisite: consent of instructor.
- 438-4. **PSYCHOLOGICAL CONSIDERATIONS IN TREATMENT.** For advanced undergraduates and graduate students entering allied professions in which they will be directly concerned with corrective or remedial service. Basic psychological principles and considerations relevant to planning and conducting such treatment; potentialities and limitations of individual and group treatment; environmental manipulation. Prerequisite: recommendation of student's major department.
- 440-4. **THEORIES OF PERSONALITY.** A review and critical evaluation of major personality theories and their supporting evidence. Prerequisite: 305 or consent of instructor.
- 451-4. **ADVANCED CHILD PSYCHOLOGY.** An examination of the concepts, methods, and problems of human development with consideration of both its psychobiological and psychosocial aspects. Prerequisite: 301 or 303 or consent of instructor.
- 461-4. **ADVANCED SOCIAL PSYCHOLOGY.** Examines current areas of interest in the study of social behavior: language behavior, communication, social influence, attitude change, interpersonal perception, etc. Emphasis is on the individual in the social context. Prerequisite: 307 or consent of instructor.
- 465-4. **GROUP DYNAMICS AND INDIVIDUAL BEHAVIOR.** Examination of research and theory in the area of small group interaction. Examines such topics as group structure and function, group problem-solving, leadership, etc. Prerequisite: 307 or consent of instructor.
- 471-4. **ADVANCED INDUSTRIAL AND PERSONNEL PSYCHOLOGY.** An advanced course presenting selected topics in the field of industrial, engineering and personnel psychology. Prerequisite: 320 or 322 or consent of instructor.
- 490-1 to 16. **INDEPENDENT PROJECTS.** Independent readings and projects

in psychology. Prerequisite: consent of instructor and chairman of department.

Courses on the 500 level are for graduate students only.

- 509-4. INSTRUMENTATION IN BEHAVIORAL SCIENCE. Study of methods of research instrumentation. Techniques of stimulation and of physiological and psychological response recording. Lecture and laboratory. Prerequisite: consent of instructor.
- 512-4. SENSORY PROCESSES. A study of the structure and function of the sense organs. Emphasis will be placed on the psychological data which describe the function of these organs. Prerequisite: consent of instructor.
- 514-4. PHYSIOLOGICAL PSYCHOLOGY. Study of neural and endocrine mechanisms underlying behavioral processes. Lecture and laboratory. Prerequisite: consent of instructor.
- 520-4, 521-4, 522-4. RESEARCH DESIGN AND INFERENCE I, II, III. 520 an introduction to psychological measurement: types of scales, introduction to scaling and psychophysical methods, reliability, sources of error, and methods of estimation. 521 a continuation of 520 with emphasis on validity and multiple measures and inference. 522 an application of standard methods to the design, analysis and interpretation of psychological experiments. To be taken in sequence.
- 523-2. RESEARCH SEMINAR. Major methods of obtaining data, use of computational and laboratory equipment, planning of research projects. Every student is expected to submit a detailed research prospectus for group criticism. Prerequisite: 522.
- 524-4. ADVANCED RESEARCH METHODOLOGY. Theory and application of complex experimental designs and multivariate procedures. Prerequisite: 522.
- 525-4. MENTAL TEST THEORY. Derivation of the basic psychometric equations, effects of test length and group heterogeneity on test parameters, criteria of parallel tests, weighing and differential prediction. Prerequisite: 524.
- 530-4. PERSONALITY THEORY AND DYNAMICS. Intensive treatment and critical analysis of several representative approaches to personality. Consideration also of important personality concepts common to most theoretical approaches. Prerequisite: consent of instructor.
- 531-4. ADVANCED PSYCHOPATHOLOGY. Consideration of special topics, including psychological theories of the nature and etiology of human pathology, assessment of pathology, and institutional care and treatment. Includes extensive field experience in a mental hospital setting. Prerequisite: 530, 541, 542, and consent of instructor.
- 532-2. EXPERIMENTAL APPROACHES TO PERSONALITY. Presentation of conceptual formulations and research data from representative experimental approaches to personality. Critical evaluation of methodological approaches to personality study. Prerequisite: 530 or consent of instructor.
- 536-4. FUNDAMENTALS OF COUNSELING. Introduction to the common assumptions, dimensions, and communicative skills underlying psychological counseling. Observation utilized to supplement didactic discussion. Lecture and demonstration. Prerequisite: consent of instructor.
- 537-4. COUNSELING AND PSYCHOTHERAPY. Systematic presentation of

major approaches to counseling and psychotherapy. Consideration of salient aspects of the therapeutic situation and of the process and nature of changes during psychotherapy. Critical evaluation of both theory and practice. Consideration of research findings and problems. Prerequisite: 530 and consent of instructor.

538-2. GROUP PSYCHOTHERAPY. Presentation of major approaches to group psychotherapy. Prerequisite: 537 and consent of instructor.

541-2 to 4, 542-2. PSYCHODIAGNOSTICS I AND II. Introduction to clinical psychology with attention to the function and clinical use of individual intelligence tests. Theories of intelligence and related research. 541: age scales with emphasis on infant and child testing. 542: point scales and tests of deterioration with emphasis on child and adult testing. Lecture and practicum. Prerequisite: 520 and consent of instructor.

543-4, 544-2. PSYCHODIAGNOSTICS III AND IV. Basic theory and assumptions underlying projective methods. Use of projective techniques as measures of personality and as tools for clinical diagnosis and research. 543: thematic projective techniques. 544: Rorschach and Bender-Gestalt. Lecture and practicum. Prerequisite: 542 or consent of instructor.

545-2. PSYCHODIAGNOSTICS V. Nature and theory of questionnaires for personality assessment and psychodiagnosis. Consideration of their use in clinical research. Lecture and practicum. Prerequisite: consent of instructor.

546-3 to 4. PSYCHODIAGNOSTICS FOR SPECIAL POPULATIONS. (Same as Special Education 573.) Tests used in diagnostics and measurement of special populations such as retarded, blind, deaf, brain injured, and the like. Lecture and laboratory. Prerequisite: consent of instructor.

547-2. ASSESSMENT PROCEDURES IN COUNSELING. Use and integration of psychological test data, vocational, socio-economic, and educational information in assessment and counseling. Prerequisite: 421 or consent of instructor.

552-4. EXPERIMENTAL CHILD PSYCHOLOGY. Consideration of relationship of methodology to child theory, typical methodological procedures and problems specific to children, and representative research topics. Prerequisite: 451 or consent of instructor.

554-2. DEVELOPMENTAL THEORY. Systematic study and critical evaluation of representative theories of child behavior. Prerequisite: 451 or consent of instructor.

556-2. PSYCHOLOGICAL TREATMENT OF THE CHILD. Investigation of personality and behavior problems. Etiological factors and methods of treatment. Prerequisite: 451 or consent of instructor.

561-4. SOCIAL INFLUENCE PROCESSES. Critical review of theoretical and empirical developments in the study of influence processes, attitude change, etc. Social and intrapersonal determinants are examined. Prerequisite: 461 or consent of instructor.

562-4. OBSERVATIONAL TECHNIQUES AND CONTENT ANALYSIS. Examination and evaluation of research methods and measurement techniques utilized in social psychology. Prerequisite: 461 or consent of instructor.

564-4. COMMUNICATION AND GROUP BEHAVIOR. Emphasis in this course is on language behavior and the psychological study of the com-

- munication process. Examines theories, methods and research in these areas. Prerequisite: 461 or consent of instructor.
- 571-4, 572-4. INDUSTRIAL PSYCHOLOGY I, II. 571 covers motivation and morale, job satisfaction, leadership, communication, industrial relations, market research. 572 covers job analysis, employee evaluation, selection and training, human engineering, accidents. Prerequisite: 520 or equivalent.
- 573-2. SELECTION AND PLACEMENT. Proficiency measurement, selection and validation of test batteries, use of the interview and personal history data in selection, quota, and classification problems, administration of a selection program. Prerequisite: 524 or consent of instructor.
- 574-2. PSYCHOLOGY OF INDUSTRIAL RELATIONS. Analysis of psychological factors involved in industrial organization, employer-employee relations, and union-management relations. Prerequisite: 571 or consent of instructor.
- 576-2 to 4. HUMAN ENGINEERING. Analysis of man-machine systems, human factors in the design of display and control systems, limitations and capabilities of the human operator. Prerequisite: consent of instructor.
- 590-1 to 16. READINGS IN PSYCHOLOGY. Readings in selected topics in psychology under staff supervision. Prerequisite: consent of department.
- 591-1 to 36. RESEARCH IN PSYCHOLOGY. Research under staff supervision in selected areas of psychology. Prerequisite: consent of the department.
- 593-1 to 18. PRACTICUM IN PSYCHOLOGY. Practicum experience in a professional setting is offered under staff supervision in the following areas: E. Clinical Psychology, F. Counseling Psychology, H. Industrial Psychology, J. Child Psychology, K. School-Community Mental Health Psychology, L. Teaching of Psychology, M. Rehabilitation, N. Rehabilitation Counseling.
- 595-1 to 40. ADVANCED SEMINAR. Seminars for advanced students in the following areas of psychology: A. Clinical Psychology, B. Counseling Psychology, C. School-Community Mental Health Psychology, D. Industrial Psychology, E. Personality, F. Child Psychology, G. Social Psychology, H. General-Experimental Psychology, J. Teaching of Psychology, K. Rehabilitation Counseling, L. Measurement in Psychology.
- 598-2. ETHICAL AND PROFESSIONAL PROBLEMS IN PSYCHOLOGY. Problems in the professional practice of psychology and in teaching and research. Professional ethics, relations to other professions and the public, organization and structure of the field, current trends. Prerequisite: major in psychology or consent of instructor.
- 599-1 to 9. THESIS.
- 600-1 to 45. DISSERTATION.

RELIGION

The educated citizen will have some knowledge of the cultural traditions contributing to our Western civilization. A great part of our

heritage is directly related to the treasure of knowledge and practices of our religious traditions. Through the religious foundations, credit courses in religion provide an opportunity for every student to enjoy a fuller educational experience.

Students may present a minor in religion to satisfy the minor requirement for a degree in the College of Liberal Arts and Sciences. This minor consists of thirty quarter-hours: fifteen hours earned in courses selected from the following list (Group A) offered by the academic departments of the college; and (Group B) fifteen hours earned in courses offered by the various religious foundations. In the second group of fifteen hours, courses must be taken in at least two foundations.

Group A courses include English 209, 362, 438, 473; History 416, 481; Philosophy 301, 302, 340, 382; Psychology 305, 307; Sociology 102, 333, 340, 351, 450. Descriptions for these courses may be found under the various departments.

Description of courses offered by the religious foundations and the list of required courses for the minor in Religion may be secured from the foundations or from the College of Liberal Arts and Sciences.

RUSSIAN AND CENTRAL EUROPEAN STUDIES

A minor in area studies with specialization in Russian studies or in Central European studies is offered especially for those students who also work for a minor or a major in foreign languages: Russian for Russian studies; German, Russian, or French for Central European studies.

For both minor programs a minimum of 24 hours must be earned in the chosen field, at least 12 of them in principal courses, the rest by electives. Not more than three courses offered by one department will be counted toward fulfillment of the requirements. In exceptional cases an elective course may be substituted after consultation with the adviser for the program.

Principal courses for the *Russian studies* consist of Economics 460, Geography 402, Government 453, History 372, 373. Electives are Anthropology 309, Geography 315, 444, Economics 418, 481, Government 455, History 312, 450.

Principal courses for the *Central European studies* consist of Economics 418, Geography 315, Government 391, 455, History 450, 312. The electives are Anthropology 308, 400, Geography 402, 444, Government 370, 453, Economics 460, 481, History 373, 372. One reading course or one in-

dependent-studies course can be used in fulfillment of the requirements. Each student's program, however, should be approved by the student adviser.

Dr. Joseph Velikonja, Department of Geography, is administrator and student adviser for the program.

SOCIOLOGY

Professor Paul J. Campisi, Ph.D. (Chicago), Chairman	1959
Professor Joseph K. Johnson, Ph.D. (Washington)	1947
Professor Herman R. Lantz, Ph.D. (Ohio State)	1951
Professor Peter Andreas Munch, Ph.D. (Oslo)	1957
Professor Charles R. Snyder, Ph.D. (Yale)	1960
Professor William J. Tudor, Ph.D. (Iowa State)	1948
Associate Professor Melvin S. Brooks, Ph.D. (Wisconsin)	1956
Associate Professor A. J. Shafter, Ph.D. (Iowa)	1957
Associate Professor James D. Turner, Ph.D. (Indiana University)	1958
Assistant Professor L. Keith Miller, Ph.D. (Illinois)	1961
Assistant Professor Louis Petroff, Ph.D. (Southern California)	1940
Assistant Professor Douglas Lloyd Rennie, Ph.D. (Yale)	1956
Assistant Professor Eloise C. Snyder, Ph.D. (Pennsylvania State)	1956
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Visiting Professor Stuart A. Queen, Ph.D. (Chicago)	1960-61
Visiting Professor Raymond E. Wakeley, Ph.D. (Cornell)	1961-62
Lecturer Herschel Aseltine, M.A. (Chicago)	1961
Lecturer Thomas R. Gwinup, M.A. (Indiana State College)	1960-61
Lecturer Margaret Mullikin, M.A. (Wichita)	1960-62

APPLIED SOCIOLOGY

Research Professor Richard W. Poston, B.A. (Montana)	1953
Assistant Professor Richard C. Franklin, D.Ed. (Columbia)	1956
Assistant Professor George M. Stabler, Ph.D. (Michigan State)	1960
Assistant Professor Ronald Vander Wiel, M.S.W. (Washington University)	1957
Instructor Robert C. Child, M.A. (Southern Illinois)	1956

The Department of Sociology offers major and minor programs for students in both the College of Liberal Arts and Sciences and the College of Education.

SUGGESTED CURRICULA IN SOCIOLOGY

The following curriculum leads to the Bachelor of Arts degree with a major in sociology in the College of Liberal Arts and Sciences.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)	37
<i>Requirements in the Department of Sociology</i>	42
Sociology 101, 321, 400, 407, 412, 451	23
Sociology electives in courses whose second digit is not eight, to complete 42 hours	19
<i>Related Requirements for the Major</i>	12
A minimum of 4 hours in each of the following areas: psychol- ogy, social anthropology, and statistics	
<i>Duplication of Requirements</i>	-9
The major requirements in psychology and sociology also satisfy 4 hours of College of Liberal Arts and Sciences Requirements and 5 hours of General Degree Requirements. These hours are deducted here to avoid counting them twice in the total.	
<i>Electives</i>	39
<i>Total</i>	192

The following curriculum in the College of Liberal Arts and Sciences leads to the Bachelor of Arts degree with a major in sociology and specialization in social work.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)	37
<i>Requirements in the Department of Sociology</i>	42
Sociology 101, 321, 380, 383, 400, 412, 481, 482	30
Sociology electives to complete 42 hours	12
<i>Related Requirements for the Major</i>	24
A minimum of 4 hours in each of these areas: econom- ics, psychology, social anthropology, and statistics.	16
A minimum of 8 hours in the area of American national, state, and local government.	8
<i>Duplication of Requirements</i>	-18
The major requirements in economics, government, psychology, and sociology also satisfy 14 hours of General Degree Require- ments. These hours are deducted here so that they will not be counted twice in the total.	

<i>Electives</i>	36
<i>Total</i>	192

COURSE DESCRIPTIONS

Courses in sociology are listed according to numerical order. However, the second digit in the course number indicates its field as follows:

- 00-09 General Sociology
- 10-19 Methodology and Research Techniques
- 20-29 Social Psychology
- 30-39 Social Organization and Structure
- 40-49 Family
- 50-59 Sociology of Knowledge
- 60-69 Personal Disorganization
- 70-79 Special Fields
- 80-89 Applied Fields

- 101-5. **INTRODUCTORY SOCIOLOGY.** Scientific study of human society and the various means by which individuals and groups adjust to each other and to their physical and social environment.
- 102-5. **SOCIAL PROBLEMS.** An analysis of selected contemporary social problems in their social and cultural setting such as crimes, suicide, mental illness, the vices, family disorganization, with emphasis upon their extent and significance.
- 184-4. **DATING, COURTSHIP, AND MARRIAGE.** The problem of dating, courtship, and marriage in modern American society. Recommended for the single freshman student without social science background. Can not be used to fulfill general education requirements.
- 241-4. **MARRIAGE AND PARENTHOOD.** The social psychology of dating, courtship, and family relations; evaluation of research findings; problems of applying scientific principles to changing overt behavior. Prerequisite: 101.
- 305-4. **SOCIAL INSTITUTIONS.** Concepts of institutions; origins, development, and variability of institutions; institutional lag and change. Prerequisite: 101.
- 306-4. **SOCIAL CONTROL.** The means and principles of social controls; social institutions as factors in control; techniques of directing social action. Prerequisite: 101.
- 320-4. **RACE AND MINORITY GROUP RELATIONS.** Racial and cultural contacts and conflicts, causes of prejudice; status and participation of minority groups; national and international aspects of minority problems. Prerequisite: 101.
- 321-4. **SOCIALIZATION OF THE INDIVIDUAL.** The process of socialization in infancy, childhood, and adolescence; development of habits, attitudes, sentiments; emergence of the self; integration of the individual and society. Prerequisite: 101.
- 322-3. **PROPAGANDA AND PUBLIC OPINION.** Techniques and charac-

- teristics of propaganda; methods of measuring public opinion. Prerequisite: 101.
- 332-4. **SOCIAL ORGANIZATION.** An examination of the determinants of social organization; intensive analysis of institutional configurations, social stratification, and systems of social control; review of significant writing. Prerequisite: 101.
- 333-4. **COMMUNITY ORGANIZATION.** Factors involved in community organization; types, aims, and objectives; community diagnosis; individual case study of specific community. Prerequisite: 101.
- 335-4. **URBAN SOCIOLOGY.** The rise, development, structure, culture, planning and problems in early and modern cities. Prerequisite: 101.
- 336-4. **SOCIOLOGY OF RURAL LIFE.** The structure, functioning, and change of rural social life; study of informal groups, neighborhoods, and communities; social class and value orientation. Prerequisite: 101.
- 338-4. **INDUSTRIAL SOCIOLOGY.** Social organization and processes within the formal and informal structure of the industrial unit; research and experimental materials concerning social determinants of morale, status and role of the worker. Prerequisite: 101.
- 340-4. **THE FAMILY.** The family in historic and contemporary society; evolution of the modern family; changes in family functions, structures, and roles. Prerequisite: 101.
- 351-4. **SOCIOLOGY OF RELIGION.** Function of religious institutions in society and their relationship to other major social institutions; role in social control and group solidarity. Prerequisite: 101.
- 371-4. **POPULATION AND MIGRATION.** Quality and quantity of population, problems of growth, composition, distribution, differential fertility, international and internal migration, and control of numbers and quality. Prerequisite: 101 or equivalent in economics, geography or government.
- 372-4. **CRIMINOLOGY.** The nature of crime; criminal statistics; causal factors; theories and procedures in prevention and treatment. Prerequisite: 101.
- 373-4. **JUVENILE DELINQUENCY.** Nature of juvenile delinquency; factors contributing to delinquent behavior; treatment and prevention. Prerequisite: 101.
- 374-3. **SOCIOLOGY OF EDUCATION.** Methods, principles, and data of sociology applied to the school situation; relation of the school to other institutions and groups; may be counted either as sociology or education. Prerequisite: 101.
- 380-4. **INTRODUCTION TO SOCIAL WORK.** The historical development, philosophy, and theory forming the basis for the professional practice of social work; processes developed and the specialties within each of them; personal and educational requirements for the career opportunities available. Prerequisite: 101.
- 383-4. **INTRODUCTION TO INTERVIEWING.** Theory and practice of interviewing as a means of gaining information, and of understanding and imparting the same. Focus is on the interview as a tool in social work, but principles are generally applicable. Prerequisite: 101 or Psychology 201.

- 389-3. **TECHNIQUES OF GROUP LEADERSHIP.** Application of leadership principles; kinds of leadership; effective techniques of group control; factors in experimental group situations. Prerequisite: 101.
- 400-2. **CURRENT SOCIOLOGY.** Students read, report on, and evaluate content of leading sociological journals. Prerequisite: 8 hours of sociology.
- 406-3. **SOCIAL CHANGE.** Processes of social change in the modern world; culture lag and conflict of norms; individual and social problems arising from conflicting systems of social values and cultural norms. Prerequisite: 8 hours of sociology.
- 407-4. **INTEGRATED SOCIOLOGY.** Designed for senior students with a sociology major. Integration of sociological concepts and principles: society and culture, the human group, social norms and patterns, status and role, organization, structure, and function, social change. Prerequisite: 15 hours of sociology.
- 412-4. **SOCIOLOGICAL RESEARCH.** Introduction to methods of sociological research. Relations between theory and research design. Application of scientific methods to social data. Prerequisite: 12 hours of sociology or consent of instructor.
- 415-3. **LOGIC OF THE SOCIAL SCIENCES.** Logical and epistemological examination of social studies as types of knowledge. Basic problems in philosophy of science generally, with major emphasis upon social science: relationship of theory to fact, nature of induction, nature of causal law, testability, and influence of value-judgments. Prerequisite: 15 hours of sociology or consent of instructor. (Same as Philosophy 415.)
- 424-4. **COLLECTIVE BEHAVIOR.** The behavior of people in large groups; collective interstimulation and emotions; crowds, audiences, and publics; mass stimuli and mass response. Prerequisite: 321 or 322, or consent of instructor.
- 426-4. **SOCIAL FACTORS IN BEHAVIOR AND PERSONALITY.** How group situations and values affect behavior and shape personality; development of concepts, role-concepts, attitudes, values; theories of motivation; self-concepts; conflicting social values in relation to individual motivation. Prerequisite: 321 or Psychology 305, or consent of instructor.
- 427-4. **PERSONALITY AND SOCIAL ADJUSTMENT.** Basic mechanisms of adjustive behavior; concepts and criteria of personal integration and social adjustment; varieties of adjustive and non-adjustive behavior; theories of personal organization and disorganization; selected problems. Prerequisite: 321 or Psychology 305, or consent of instructor.
- 435-4. **SOCIAL STRATIFICATION.** A comparative study of social class systems, with emphasis on the American systems. Relationships of class position to behavior in areas such as family, religion, politics. Prerequisite: 101.
- 445-3. **SOCIOLOGY OF INFANCY AND CHILDHOOD.** Influences of primary groups; origins of self- and role-concepts; relationships between early and later development; cross-cultural and inter-class comparisons. Prerequisite: 340 and 426.
- 449-4. **SOCIOLOGY OF AGING.** The social implications of an aging population; social adjustments to the aging process; personal adjustments to the roles and statuses of later maturity; a consideration of retirement and

- public assistance programs for older people. Prerequisite: 101 or consent.
- 450-4. SOCIAL THOUGHT I: BEFORE 1800. Ancient background of Western social thought; development of modern social thought. Prerequisite: general background in history.
- 451-4. SOCIAL THOUGHT II: THE SOCIOLOGICAL MOVEMENT. Rise and development of scientific social thought in Western society. Prerequisite: background in nineteenth-century history or literature.
- 452-4. SOCIAL THOUGHT III: TWENTIETH CENTURY. A survey of important trends in contemporary social thought.
- 453-4. SOCIAL MOVEMENTS. A sociological study of modern social movements; social and cultural backgrounds, forms of expression and organization; social structure of social movements, their role and function in modern society. Prerequisite: 8 hours of sociology.
- 471-4. PRINCIPLES OF DEMOGRAPHY. Techniques in analyzing and evaluating data on human population; composition, birth and death rates, life tables, migration data, estimates of future trend. Practical uses of demographic techniques. Prerequisite: 371, 412.
- 472-4. TREATMENT AND PREVENTION OF CRIME. Principles of penology; history of punishment and prisons; criminal law, police function, criminal courts; the prison community; the juvenile court and related movements. Prerequisite: 372.
- 480-2. HISTORY AND LEGAL ASPECTS OF REHABILITATION. A survey of historical and legal developments in rehabilitation agencies, with particular emphasis on current theories and trends. Open only to students in the Rehabilitation Institute.
- 481-4. PROCESSES IN SOCIAL WORK. Theory, rationale, and practice of casework, group work, social welfare organization, and the roles of supervision, administration, and research in relation to each. Case material study and discussion with field observation and practice. Prerequisite: 380 or consent of instructor.
- 482-3. SOCIAL WORK IN SELECTED AGENCIES. Study of representative literature on casework in family, psychiatric, medical, school, military, child welfare, and correctional settings, and others. Case material study and discussion with field observation and practice. Prerequisite: 481.
- 484-3. SURVEY COURSE IN MARRIAGE COUNSELING. Survey and analysis of the field of marriage counseling; assessment of current practices and techniques in terms of contemporary sociological theory. Prerequisites: 241 and consent of instructor.
- 486-1 to 5. INDEPENDENT STUDY IN COMMUNITY DEVELOPMENT. Supervised individual study of the literature in community development. Prerequisite: consent of Community Development Institute director.
- 487-4. COMMUNITY DEVELOPMENT I. The concepts of community development and analysis of the social-psychological forces and processes involved in citizen study, planning and action directed toward the fuller development of communities in a democratic society. Laboratory period for field trips. Prerequisite: 4 hours of sociology or equivalent.
- 488-3. COMMUNITY DEVELOPMENT II. Principles and procedures applicable to solving social problems in the context of a community development program. Laboratory period for field trips. Prerequisite: 487.

Courses on the 500 level are for graduate students only.

- 501-4. HISTORY OF EUROPEAN SOCIOLOGY. The development of sociology as a science of society, from synthetic philosophy (St. Simon, Comte, H. Spencer) to analytic sociology (Durkheim, Tonnies, M. Weber, and others). Prerequisite: 451 or consent of instructor.
- 502-4. SEMINAR IN EUROPEAN SOCIOLOGICAL THEORY: 1800-1910. The theoretical systems of selected European sociologists studied from the original writings. Prerequisite: 15 hours of sociology or consent of instructor.
- 503-4. SEMINAR IN EUROPEAN SOCIOLOGICAL THEORY: 1910 TO PRESENT. A continuation of 502. Prerequisite: 15 hours of sociology or consent of instructor.
- 504-4. SEMINAR IN AMERICAN SOCIOLOGY I: FOUNDATIONS. A detailed study of the writings of outstanding American sociologists. Prerequisite: 15 hours of sociology or consent of instructor.
- 505-4. SEMINAR IN AMERICAN SOCIOLOGY II: THE SECOND GENERATION. A continuation of 504. Prerequisite: 15 hours of sociology or consent of instructor.
- 506-4. SEMINAR IN CONTEMPORARY SOCIOLOGICAL THEORY. An analysis of recent sociological theories, including a survey of current approaches to the construction and application of systematic theoretical models. Special attention will be given to "structural-functional" analysis and to the theoretical adequacy of selected theory-oriented empirical research areas. Prerequisite: 15 hours of sociology or consent of instructor.
- 511-4. METHODOLOGICAL FOUNDATIONS OF THE SOCIAL SCIENCES. Social science methodology; the nature of social facts and phenomena, the formation of concepts, the application of logic in the social sciences. Prerequisites: 407 and Philosophy 420 or consent of instructor.
- 513-3. RESEARCH TECHNIQUES I. Scientific research methods and techniques applied to the study of social phenomena. Discussion of the scope and purpose of social research; evaluating and interpreting social data. Prerequisite: 412 or consent of instructor.
- 514-3. RESEARCH TECHNIQUES II. A continuation of 513.
- 516-4. SEMINAR IN METHODOLOGY. Supervised research, with practical application of research principles. Prerequisites: 511, 513, 514.
- 521-4. SEMINAR IN SOCIAL PSYCHOLOGY. Survey of theoretical systems; progress toward integrated body of behavioral theory. Prerequisite: 426.
- 533-4. ECOLOGY OF HUMAN COMMUNITIES. Spatial and temporal organization of population and institutions with special reference to the organization of rural and metropolitan communities. Emphasis on basic research methods and current sources of data in respect to type, structure, and growth of the communities. Prerequisite: 15 hours of sociology or consent of instructor.
- 534-4. SEMINAR IN INTER-GROUP RELATIONS. Cross-cultural study of inter-ethnic and inter-faith relations, with special attention to conflict, accommodation, acculturation and assimilation. Prerequisite: 15 hours of sociology or consent of instructor.
- 537-4. SOCIOLOGY OF LAW. An analysis of the role of law in society. Spe-

cial emphases will be given to the relationships between law and social organization, social control, social value systems and social change; consideration will be given to research in the field. Prerequisite: 15 hours of sociology or consent of instructor.

- 538-4. SEMINAR IN INDUSTRIAL SOCIOLOGY. Selected aspects of Industrial Organization and related problems including such topics as: functional and disfunctional deviations from ideal bureaucracy, promotion policies, labor relations, job aptitudes, job satisfactions, and public relations. Prerequisite: 15 hours of sociology or consent of instructor.
- 539-4. SOCIOLOGY OF BUREAUCRACY. Analysis of the structural characteristics and conditions for the emergence of bureaucratic and quasi-bureaucratic forms of organization. Attention will be given to such problems as the bases of authority, stabilizing mechanisms, systems of formal and informal relations, rationality and paradox in bureaucratic organization. The impact of bureaucratic organization upon character structure and its role in the formation of classes and elites will also be considered. Prerequisite: 15 hours of sociology or consent of instructor.
- 542-4. SEMINAR ON THE FAMILY. The family as a field of sociological study. Assessment of significant historical and contemporary writing. Prerequisite: 15 hours of sociology including 340, or consent of instructor.
- 543-4. SEMINAR IN FAMILY VARIABILITY. An analysis of the structure, organization, and function of the family in several contemporary and primitive societies. Prerequisite: 15 hours of sociology including 340, or consent of instructor.
- 544-4. SEMINAR IN FAMILY RESEARCH. A detailed analysis of significant research in the field of the family. Special attention to be given to methods employed as they relate to the specific problems investigated. Prerequisite: 15 hours of sociology including 340, or consent of instructor.
- 545-4. THE FAMILY AND SOCIAL CHANGE. The significant social factors responsible for changes in the family from ancient times to present. Analysis of representative writings from several periods. Prerequisite: 15 hours of sociology including 340, or consent of instructor.
- 553-4. SEMINAR ON SOCIAL MOVEMENTS. The student will be expected to make a sociological study of a particular social movement or a comparative study of a particular aspect of the sociology of social movements. Prerequisite: 453 or consent of instructor.
- 561-4. ALCOHOL AND SOCIETY. Analysis of the determinants of ranges of variation in drinking patterns, normal or pathological, viewed cross-culturally and in the context of complex society. Special consideration will be given to the following: the ecology of drinking and alcoholism, drinking patterns and social structure, drinking centered subcultures and institutions, as well as to the genesis and patterning of deviant drinking (alcoholism), responsive movements and systems of control.
- 562-4. DEVIANCE AND DISORGANIZATION. Concepts and approaches in the sociological study of deviant behavior and social disorganization. The strategic significance of the investigation of phenomena such as suicide, crime, and alcoholism for theories of deviance and disorganization. Prerequisite: 15 hours of sociology or consent of instructor.

- 563-4. RESEARCH PROBLEMS IN DEVIANCE AND DISORGANIZATION. For advanced students who are concerned to develop viable research projects in the areas of social disorganization and deviant behavior. Students will be expected to formulate and present original research prospectuses for critical evaluation. Consideration will be given to questions of theoretical relevance, research design, and appropriate techniques. Prerequisite: 15 hours of sociology or consent of instructor.
- 572-3. SEMINAR IN CRIMINOLOGY. Critical study of important research through book reviews and theoretical analyses. Prerequisite: 372 or consent of instructor.
- 573-3. SEMINAR ON THE SOCIOLOGY OF WAR. Critical analysis of the hypothesis that modern war is part and product of an inherently understandable process or integration of processes. This approach will be contrasted with the moralistic approach.
- 580-3. SUPERVISED EXPERIENCE IN REHABILITATION COUNSELING. Supervised counseling experience in social work or welfare agencies. Open only to students in the Rehabilitation Institute. Prerequisites: 480, 481, 482.
- 581-3 to 9. FIELD WORK IN REHABILITATION. Supervised field work in social work or welfare agencies. Block or concurrent placement. Open only to students in the Rehabilitation Institute.
- 585-1 to 3. SEMINAR IN REHABILITATION COUNSELING. A continuing survey of recent developments and trends in the organizational structure, functions, and team interaction of specialists devoted to rehabilitation of the handicapped. Selected problems of the role of the rehabilitation counselor in multiple settings. Prerequisite: consent of instructor. Maximum credit of 6 hours.
- 586-3. THE CHANGE AGENT IN PLANNED CHANGE. (Same as Secondary Education 586.) An intensive diagnosis of the dynamics involved in planned change in a social system—using actual situations for study—and the consultant's relationship to this process. Prerequisite: Sociology 333 or consent of instructor.
- 591-2 to 6. INDIVIDUAL RESEARCH. Supervised research projects. Open only to graduate students with a major in sociology. Prerequisite: consent of instructor and chairman of department. Credit according to achievement.
- 596-2 to 6. READINGS IN SOCIOLOGY. Supervised readings in selected subjects. Prerequisite: consent of instructor and chairman of department.
- 599-2 to 9. THESIS. Before a thesis can be submitted, the candidate must have passed a special examination in French, German, or statistics. Before the thesis can be submitted in final form, the candidate must have passed a comprehensive examination.

ZOOLOGY

Professor Harvey I. Fisher, Ph.D. (California), Chairman	1955
Professor Charles L. Foote, Ph.D. (Iowa)	1947
Professor Willard M. Gersbacher, Ph.D. (Illinois)	1929-30; 1936

Professor W. D. Klimstra, Ph.D. (Iowa State)	1949
Professor William M. Lewis, Ph.D. (Iowa State)	1949
Associate Professor Richard E. Blackwelder, Ph.D. (Stanford)	1958
Associate Professor John C. Downey, Ph.D. (California)	1956
Associate Professor Edwin C. Galbreath, Ph.D. (Kansas)	1957
Associate Professor Hilda A. Stein, M.S. (Illinois)	1925
Assistant Professor John W. Crenshaw, Jr., Ph.D. (Florida)	1960
Assistant Professor George Garoian, Ph.D. (Illinois)	1956
Assistant Professor Howard J. Stains, Ph.D. (Kansas)	1955
Instructor Vernon W. Cole, M.S. (Michigan State)	1956
<hr/>	
Visiting Professor Richard R. Kudo, D.Ag.Sc. (Tokyo)	1958-62
Lecturer Everett Dale Wilson, M.S. (Indiana State)	1960-61

SUGGESTED CURRICULA IN ZOOLOGY

The following curriculum leads to the Bachelor of Arts degree with a major in zoology in the College of Liberal Arts and Sciences.

<i>General Degree Requirements</i> (See page 10.)	71
<i>College of Liberal Arts and Sciences Requirements</i> (See page 11.)	37
<i>Requirements in the Department of Zoology</i>	48
Zoology 100, 102, 103, 202, 300, 382A, 382B, 382C, 401	32
Zoology 303, 306, 335, 408, 461, 465 (any one) Teachers in in-service training may substitute 402 or 403.	4
Zoology electives to complete 48 hours	12
<i>Related Requirements for the Major</i>	48
Six quarters of a language (preferably French, German, or Russian) are recommended.	18
Three quarters are required in each of two of the following areas: botany, chemistry, physics.	30
<i>Duplication of Requirements</i>	-26
Courses listed above also satisfy 26 hours of general-degree and college requirements. These hours are deducted here to avoid counting them twice in the total.	
<i>Electives</i>	14
<i>Total</i>	192

Recommendations for majors in zoology include organic chemistry; three quarters of physics; three quarters of botany; two quarters of mathematics; one quarter of physiology; and one quarter of microbiology.

A minimum of twenty-four hours of zoology is required for a minor,

including Zoology 100, 102, 103 and at least nine additional hours. At least one course above the 100 level must have a laboratory.

Zoology majors or minors who expect to enter such professions as teaching, fish and wildlife management, dentistry, medicine, veterinary medicine, or allied fields should consult with the department concerning their programs.

COURSE DESCRIPTIONS

- 100-5. **PRINCIPLES OF ANIMAL BIOLOGY.** Introduction to the major principles of biology, including classification, organization of matter into cells, tissues, organs, and organ systems, heredity, ecology, distribution, organic evolution, economic biology, and conservation. Laboratory work designed to illustrate the above principles. Course satisfies general education requirement in biological sciences.
- 102-5. **GENERAL INVERTEBRATE ZOOLOGY.** Studies of representatives of the various kinds of invertebrate animals. Relationships, structure, and natural history are emphasized. Prerequisite: 100.
- 103-5. **GENERAL VERTEBRATE ZOOLOGY.** Studies of representatives of the various kinds of vertebrate animals, with special emphasis on the amphibian type. Evolutionary development, structure, and natural history are emphasized. Prerequisite: 100.
- 202-5. **COMPARATIVE ANATOMY OF THE VERTEBRATES.** Comparative studies of the organ systems of vertebrate animals, with emphasis on the phylogeny and evolution of these organs. Prerequisites: 102, 103.
- 300-5. **VERTEBRATE EMBRYOLOGY.** Development of the individual with the frog, chick, and pig as types. Prerequisite: 202.
- 303-4. **GENERAL ORNITHOLOGY.** Classification and recognition of birds and the study of their songs, nests, migratory habits, and other behavior. Prerequisite: 100 or consent of instructor.
- 306-4. **ENTOMOLOGY.** Principles of the structure, classification, and life histories of insects. Prerequisite: 102.
- 310-5. **ANIMAL ECOLOGY.** Habitats, relations, formations, and associations of animals. Cost of field trips may be \$10-\$25 per student. Prerequisites: 102, 103.
- 312-3. **CONSERVATION OF BIOLOGICAL RESOURCES.** A consideration of the preservation, restoration, and management of renewable resources. Prerequisite: one course in botany or zoology.
- 313-3. **EVOLUTION.** Principles and processes of the evolution of living things, including man. Prerequisite: one year of biology.
- 314-4. **HEREDITY AND EUGENICS.** Principles of heredity in relation to animals, including man. (Credit may not be used toward a major). Prerequisite: Zoology 100 or Botany 101.
- 316-4. **INSECT PESTS AND THEIR CONTROL.** Principal injurious insects and their allies; chemical and biological methods of control. (Credit may not be used toward a major in zoology.) Prerequisite: 100.
- 320-5. **VERTEBRATE HISTOLOGY.** Microscopic structure of organs and tissues with emphasis on the mammal. Prerequisite: 202.

- 321-5. HISTOLOGICAL TECHNIQUE IN ZOOLOGY. Methods of preparing material for microscopic study. Prerequisite: one year of biological sciences or consent of instructor.
- 322-2 to 5. PROBLEMS IN ZOOLOGY. Research on zoological problems. Prerequisite: 4.25 grade-point average, senior standing, and approval of the department. (Credit may not be used toward a minor in zoology.)
- 335-5. FIELD ZOOLOGY. Taxonomy, natural history, and distribution of local animals. Cost of field trips may be \$10-\$25 per student. Prerequisites: 102, 103.
- 350-4. ECONOMIC ZOOLOGY. Animals in relation to public welfare. (Credit may not be used toward a major or minor in zoology).
- 380-4. HISTORY OF BIOLOGY. Biological sciences from the early Greek philosophers to the present time. Prerequisite: one year of biological sciences.
- 382A, B, C-1/2. ZOOLOGY SEMINAR FOR SENIORS. Required each term of seniors majoring in zoology. Prerequisite: one year of biological sciences.
- 401-5. GENETICS. Principles of inheritance, including genetic mechanisms, mutation, and selection. Prerequisites: 12 hours of biological science and consent of instructor.
- 402-4. NATURAL HISTORY OF INVERTEBRATE ANIMALS. Observation, identification, and life histories. Designed for teachers. Not for students specializing in invertebrate zoology. Prerequisite: one year of zoology.
- 403-4. NATURAL HISTORY OF VERTEBRATE ANIMALS. Observation, identification, and life histories. Designed for teachers. Not for students specializing in vertebrate zoology. Prerequisite: one year of zoology.
- 404-4 to 8. ZOOLOGY FIELD STUDIES. An extended trip of four to eight weeks to study animals in various environments. Arrangements made spring term. Costs per individual will be approximately \$25 per week. (4 hours may be used for undergraduate credit and 4 hours for graduate credit.) Prerequisite: approval of department.
- 405-4. ADVANCED INVERTEBRATE ZOOLOGY. Anatomy and natural history of representative types, with an introduction to the taxonomy of the various phyla. Prerequisite: one year of zoology.
- 406-4. PROTOZOOLOGY. Taxonomy, cytology, reproduction, and physiology of unicellular animals. Laboratory methods of culturing and studying. Prerequisite: one year of zoology.
- 407-5. PARASITOLOGY. Principles, collection, identification, morphology, life histories, and control measures. Prerequisite: one year of zoology.
- 408-4. HERPETOLOGY. Taxonomic groups, identification, and natural history of amphibians and reptiles. Prerequisite: one year of zoology.
- 410-4. VERTEBRATE PALEONTOLOGY. History of vertebrate animals in terms of their morphological change, geological succession, and ecological relationships. Prerequisite: one year of zoology.
- 412-4. ADVANCED ENTOMOLOGY. Morphology, physiology, systematics, and distribution of insects. Prerequisite: one basic course in entomology.
- 441-4. ADVANCED VERTEBRATE EMBRYOLOGY. Principles of development and organization of vertebrate animals during embryogenesis, with emphasis on mammalian forms. Prerequisite: 300.
- 459-4. GAME BIRDS. Natural history and management. Prerequisite: one year of zoology.

- 461-4. MAMMALOLOGY. Taxonomic groups, identification, and natural history of mammals. Prerequisite: one year of zoology.
- 463-4. GAME MANAGEMENT. General survey of management principles and techniques. Prerequisites: one year of biological science and consent of instructor.
- 464-4. GAME MAMMALS. Natural history and management. Prerequisite: one year of zoology.
- 465-4. ICHTHYOLOGY. Taxonomic groups, identification, and natural history of fishes. Prerequisite: one year of zoology.
- 466-4. FISH MANAGEMENT. Sampling, dynamics, and manipulation of fish populations, age and growth of fishes, and habitat improvement. Prerequisites: one year of biological science and consent of instructor.
- 470-4. METHODS IN BIOLOGY. (Same as Botany 470.) Methods, objectives, types of courses. Laboratory and field trips to Southern Illinois high schools. Prerequisite: major in zoology or botany.

Courses on the 500 level are for graduate students only.

- 501-4. ANIMAL BIOLOGY FOR HIGH SCHOOL TEACHERS OF BIOLOGY. Designed to add new interpretations and evaluations to the teacher's previous training in animal biology. Principles illustrated by laboratory and field work will be re-emphasized in the context of modern concepts of biology. Two lectures and two laboratory periods or field trips per week. Prerequisite: one year of biology.
- 502-2. RECENT DEVELOPMENTS IN BIOLOGICAL SCIENCES. A series of lectures based upon recent research, designed to acquaint the teacher with advances and changes in concepts. Prerequisite: one year of biological science.
- 510-4. BIO-ECOLOGY. Composition and development of biotic communities, and the relationships of plants and animals to their environment. Cost of field trips may be \$10-\$25 per student. Prerequisite: consent of instructor.
- 511-4. LIMNOLOGY. Principles exemplified by the lakes and streams of Southern Illinois. Cost of field trips may be \$10-\$25 per student. Prerequisite: consent of instructor.
- 512-3. ANIMAL GEOGRAPHY. Principles of the distribution of the animals of the world. Prerequisite: consent of instructor.
- 513-3. ADVANCED ORNITHOLOGY. Taxonomic groups, structure, and behavior of birds. Prerequisite: consent of instructor.
- 525-5. CYTOLOGY. (Same as Botany 525.) Microscopic study of protoplasm, including mitosis and meiosis; discussions of cytological behavior. Prerequisite: consent of instructor.
- 540-3. FACTORS IN ANIMAL REPRODUCTION. Genetic and physiological factors in determination, differentiation, and modification of sex in animals. Prerequisite: consent of instructor.
- 560-3. ADVANCED GAME MANAGEMENT. Principles of maintenance and improvement of game resources. Prerequisite: consent of instructor.
- 566-3. FISH CULTURE. Propagation of game, bait, and ornamental species, hatchery construction and operation, diagnosis and treatment of disease, and nutrition. Prerequisite: consent of instructor.

- 579-4. ANIMAL BEHAVIOR. The biological basis for the actions and responses of animals. Prerequisite: consent of instructor.
- 580-4. ADVANCED SYSTEMATICS. The implications of systematics, including the theory and dynamics of classification, speciation, population genetics, and evolution. Prerequisite: consent of instructor.
- 581-3. READINGS IN CURRENT ZOOLOGICAL LITERATURE. Library techniques, sources of literature, and current literature. Prerequisite: graduate status in a biological science.
- 582A, B, C-1/2. GRADUATE ZOOLOGY SEMINAR. Required of all graduate students. Credit may not be used by majors in zoology.
- 583A, B, C-1. THE TEACHING OF ZOOLOGY IN COLLEGE. Methods and practices, objectives, comparative courses. Designed as part of the apprenticeship program for preparation of college teachers. Prerequisite: graduate status in a biological science.
- 584A, B, C-1. PROTOZOOLOGY SEMINAR. Advanced discussions of trends and problems in protozoology. Prerequisite: 406 or consent of instructor.
- 596-3 to 12. SPECIAL RESEARCH IN ZOOLOGY. Investigations in zoology other than those for theses. Only 3 hours may be credited. Prerequisite: consent of instructor.
- 599-2 to 9. THESIS. Only 9 hours may be credited toward the master's degree. Prerequisite: consent of instructor.
- 600-3 to 12. DISSERTATION. Thirty-six hours must be credited toward the doctoral degree. Prerequisite: consent of instructor.

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Southern Illinois University Foundation

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It respectfully asks alumni and other citizens of Southern Illinois to consider making gifts and bequests to benefit the University. Such gifts should be conveyed to the Foundation, with proper stipulation as to their uses. The Foundation, through its officers and members, will be glad to confer with intending donors regarding suitable clauses to insert in wills and suitable forms of gifts and memorials, including bequests by means of life insurance. Large or small gifts to the library will be appreciated; likewise, gifts for special equipment, buildings, endowment of professorships in particular subjects, gifts to student loan funds and scholarship funds, gifts for the use of foreign students, and endowments for particular sorts of research. Any gifts or bequests can be given suitable memorial names.

The staff members of the Foundation are

Mr. Kenneth R. Miller, *Executive Director*, Carbondale, Illinois

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For Reference

Not to be taken from this room

